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**A study of the aftershock sequence of the Tohoku, March
2011 (M=9.0) mainshock**

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ABSTRACT

Japan has a long and interesting geologic history, since it is situated on the boundaries of major tectonic plates, continuously forming an arc system since the Permian due to subduction of the Pacific Ocean floor. The active margin of the floor is the cause of earthquakes that form a subducting zone, as it has been discovered by the great seismologist K. Wadati, extending to depths of 500 km.

The purpose of this project is the understanding of the tectonic evolution of the Japanese arc system through studying the evolution of aftershock sequences. During the last decades, efforts have been made towards predicting where or when a large aftershock will occur since a seismic excitation has started. Most interesting results came from studying seismic sequences and more specifically from their time distribution, spatial distribution, time – space distribution and magnitude distribution.

In this research a procedure is applied for estimating the strongest earthquake of a seismic sequence, taking published knowledge into consideration and new experience on time, space, time-space and magnitude distribution of non-strong earthquakes of a seismic sequence.

Data used concern a time interval of 10 years, from 2000 to 2010 in the Tohoku region that consists of the northeastern portion of Honshu, the largest island of Japan. In this region faults and volcanoes are considerably active in the last 10.000 years. Most earthquakes occur at depths less than 15 km (Zhao et al., 2000) and less frequently they occur beneath the land.

This research was conducted in an attempt to understand how seismic sequences evolve, through main shock, foreshock and aftershock sequences and hoping in a better short-term and long-term prognosis of earthquakes.

Thessaloniki, 2014

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Chapter 1

1.1 Concepts and Definitions

1.1.1 Seismic Sequence

Frequency and maximum magnitude of earthquakes are not stable but they vary with time. These changes can happen either on the fault or at the area closest to it, as in time-changes of the seismic action that is related to the seismic circle and seismic sequences.

Seismic Cycle is the repetitive procedure of accumulating and releasing elastic deformation (strain energy) at the fault triggered when an earthquake takes place. The period of the repetition is the duration of the seismic cycle (Fedotov, 1968).

Seismic Sequence is the series of earthquakes with varying magnitudes that occur at a place usually within a small interval of a few days or a few weeks. During that interval, the frequency of the earthquakes is high. The biggest earthquake is called main shock, whilst the earthquakes that precede and follow the main shock are called foreshocks and aftershocks respectively.

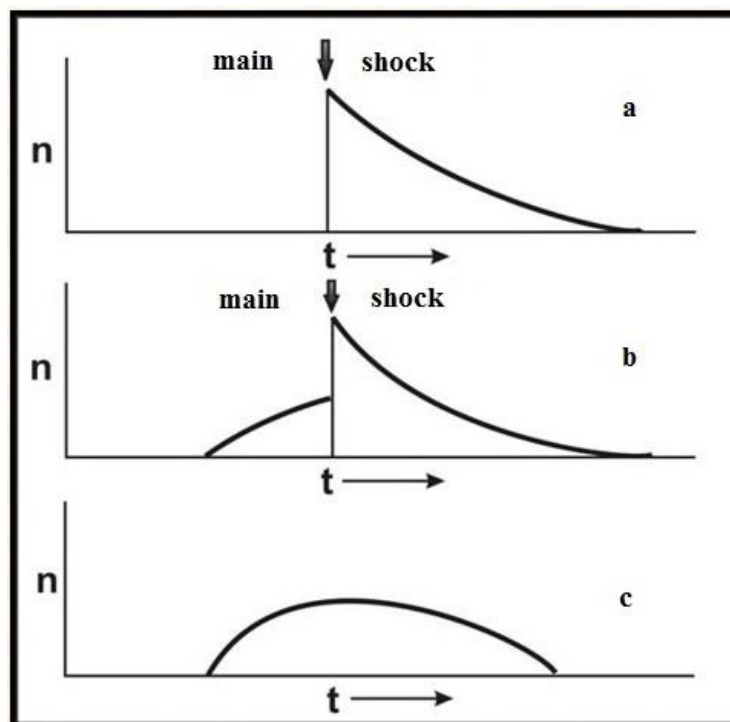


Figure 1: Different kinds of seismic sequences.

Figure (1) illustrates the three basic categories in which seismic sequences can be divided.

* In the first case, the main shock has occurred without being preceded by foreshocks but being followed by aftershocks whose frequency is reduced with time (Figure 1a).

* In the second case, the main shock is preceded by foreshocks and followed by aftershocks (Figure 1b).

* In the cases where there is not an earthquake in a sequence that has greater magnitude than all the rest, then we have earthquake swarms (Figure 1c). Initially, the frequency of these earthquakes increases continuously until it reaches its maximum value and then it decreases in order to acquire its usual form once again. They occur usually in volcanic areas and they are generally small earthquakes.

1.1.2 Laws related to seismic sequences

- According to **Båth's** law, the difference between the magnitude M_0 of the main shock and the magnitude M_1 of the largest aftershock is, on average, equal to 1.1 – 1.2, regardless of the magnitude of the main shock (Båth, 1968; Papazachos 1974, etc.). So it is: $M_0 - M_1 = 1.1$.

It appears that, this variation (Δm), does not depend only on the distribution of the magnitude of the earthquakes but also on the aftershock sequence. A big difference in Δm can be due to a small magnitude aftershock activity. Basically, the origin of Bath's law is to be found in the selection procedure used to define mainshocks and aftershocks rather than in any difference in the mechanisms controlling the magnitude of the mainshock and its aftershocks (Hlemstetter and Sornette, 2003).

- The frequency, n , of aftershocks or rather, the number of aftershocks in a unit of time (e.g. a day) follows the **Omori** law or its modified form (Omori 1894, Utsu 1961). It is an empirical formula that provides an appropriate representation of the temporal variation of aftershock activity measured after the main shock occurs: $[n(t) = K/(t + c)]$ and the modified form: $[n = n_0 \cdot t^{-p}]$, where k, c , are parameters calculated from the available data, p corresponds to the decay rate and typically ranges from 0.7 to 1.5 and n is the frequency of the earthquakes.

Parameter c has small value (≈ 0.03) and parameter k is a measurement value for the aftershock activity since it corresponds to the frequency of the earthquakes one unit of time after the occurrence of the main shock.

According to these equations, the rate of aftershocks decreases quickly with time. Whatever the probability of an aftershock is on the first day, the second day will have $1/2$ the probability of the first day and the tenth day will have approximately $1/10$ the probability of the first day (when p is equal to 1).

- The distribution of the magnitudes of aftershocks, foreshocks and swarm earthquakes follows the statistical **Gutenberg - Richter** law (Gutenberg and Richter, 1944) described by the formula: $\log N = a_t - bM$, where:

N is the number of earthquakes that occur at a certain place, a_t is a parameter that depends on the seismicity of the place, the area of the surface that is covered by the epicenters (aftershock zone) and the time interval. In seismicity studies we usually use the reduced value a for one year of this parameter: $a = a_t - \log t$. b is a parameter that depends on the mechanical properties of the material and the dominant stresses. M is the magnitude of the earthquakes.

Therefore, for an interval of 1 year the formula is: $\log N = a - bM$. Parameter b expresses the rate of the increase in the number of earthquakes as their magnitude decreases. Its value ranges from $0.4 - 1.4$. It changes as regards depth (as depth increases, b value decreases) and geological age of the place (for Alpine zones ranges from $1.0 - 1.8$, whereas in continental platforms from $0.6 - 0.7$). It also depends on stresses and mechanical properties near the focal area. When we study swarm earthquakes, parameter b shows great deviation from value 1 (usually 2 to 2.25) while in aftershock sequences has lower values and in the cases of foreshock sequences even lower. This is due to heterogeneity of the material at the rupture zone. Before the main shock some anomalies may be observed with regional stress increase, but the occurrence of the main shock causes new cracks (fractures) from where part of the energy is released in the form of heat, whereas the rest of the energy is released by aftershocks. Therefore, the more heterogeneous the material, the more foreshocks and aftershocks occur (Mogi, 1962). In highly heterogeneous areas, swarm earthquakes are common.

In addition, the way an earthquake is generated is determined by the stress at the focal region. According to experiments (Scholz, 1968) the value of parameter b is small when there is high stress and high when the stress is small.

Parameter a expresses the logarithm of the number of earthquakes with magnitude 0 and above and its value depends from:

- The time period of the observations,
- The extent of the area in observation,
- The seismicity of the region.

These parameters can be estimated by the graph of $\log N$ against M , as we can see in the following example:

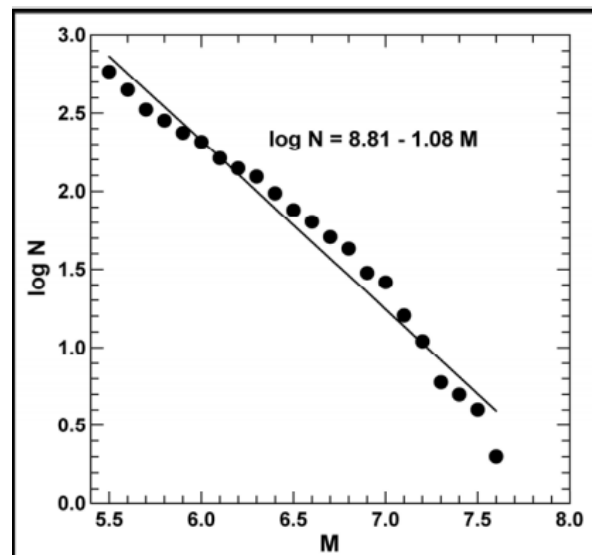


Figure 2: *Distribution of the cumulative frequency of the magnitude of earthquakes in Greece regarding the time period between 1901 and 2004 (with data taken from Papazachos et al., 2004 catalogs).*

Another method for calculating parameters a and b is based on **Gumbel's theory** (1958) according to which the knowledge of all magnitudes of earthquakes occurring at a certain area during a certain time period is not necessary and the only knowledge needed is that of the magnitude, M_j , of the biggest earthquake happening in each of the equal time spaces that the period is divided in and there are seismological data for it.

1.1.3 The way a seismic sequence is evolved

The procedure of assessing the way a seismic sequence evolves is based on the study of time variation of the frequency, spatial distribution, space – time distribution and magnitude distribution of the small and moderate magnitude earthquakes, in order to predict the stronger earthquakes.

- Time variation is the feature of seismic sequences that is usually observed in shallow shocks and is called *normal evolution* of the sequence, since it concerns the occurrence of a main shock and the aftershock that follow.

The frequency, n , of the aftershocks of such a sequence varies with time:

$$n=n_0t^{-h} \quad (1)$$

Where t is the time measured from the origin time of the main shock and n_0 and h are parameters calculated from existing data (Mogi, 1962).

The relation above (1) takes the form of $\log n = n_1 - h \log t$, where n_1 and h can be calculated by the least squares' method.

It has already been proved that aftershocks decrease with time from the main shock (Omori, 1894). Therefore, when a deviation from this decrease is observed, then there is a possibility of non-normal evolution of the sequence, which may be related to the probable occurrence of a strong aftershock.

- Spatial distribution of the earthquakes of a sequence determines the rupture zone of the main shock while foreshocks usually are located near the focal region of the main shock. (Papazachos et al., 1983).

Consequently, studying spatial distribution we can observe that foreshocks are located near the epicenter of the main shock, while aftershocks cover the entire fault zone.

- Time – Space distribution of a sequence is important while we can study it in a more general field. Studies have shown that, in the cases where the mainshock occurs in the center of the fault, the aftershock activity migrates to both ends of the fault (**bilateral rupture**). It is possible that near one end of the fault the largest aftershock may occur.

In the cases when the main shock occurs to one end of the fault (**unilateral rupture**), then seismic activity migrates to the other end of the fault, where later the largest aftershock may occur (Karakaisis et al., 1985).

- Finally, magnitude distribution helps also to classify a seismic sequence. For example, when a seismic excitation starts we can calculate the parameter **b** from the formula $\log N = a - bM$, and if its value is relatively small (~ 0.7) then it may correspond to a foreshock sequence, whereas if its value is greater (~ 1.0), then it's an aftershock sequence and lastly, if its value is even greater, then we expect swarm earthquakes (Papazachos, 1974).

Consequently, with this procedure we can assess the way a seismic sequence evolves. Thus, if we observe a normal evolution of the sequence, then we do not expect another earthquake comparable to the main shock or with greater magnitude, but if the evolution is not normal then another strong earthquake may be expected to occur, which may cause additional damage to structures that have already been affected by the mainshock.

Chapter 2 – Geological framework of Japan

2.1 Tectonic Setting

2.1.1 Introduction

The recent tectonic setting of Japan is a result of the interaction of 5 tectonic plates from Silurian until Pleistocene that lead to Japan's current topography with the four islands: Hokkaido, Honshu, Shikoku and Kyushu (Figure 3b). These plates (Fig. 3a) are: Eurasian (Amur plate), Okhotsk plate, North American plate (whose boundary with Eurasian does not seem to be active, crosses Siberia and passing across the west side of Okhotsk sea, meets Japan), the Pacific plate and Philippine plate (Wei and Seno 1998).

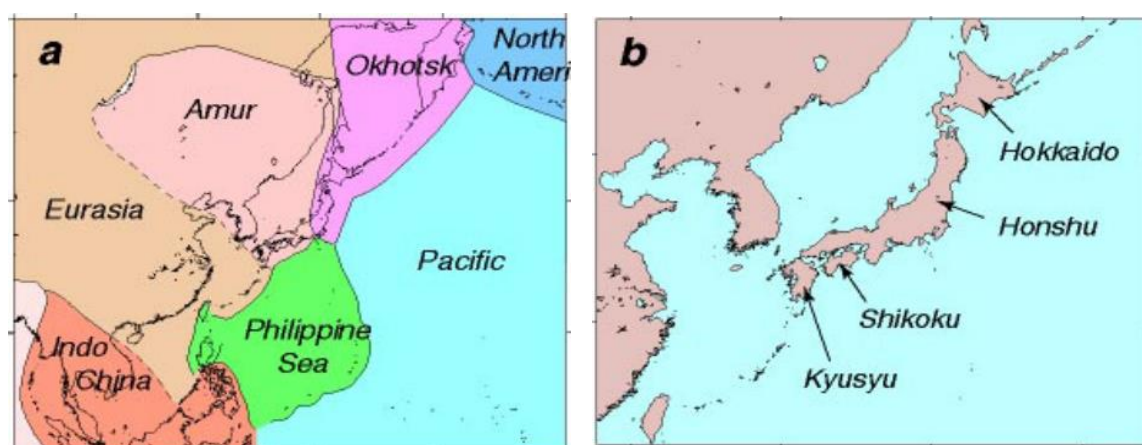
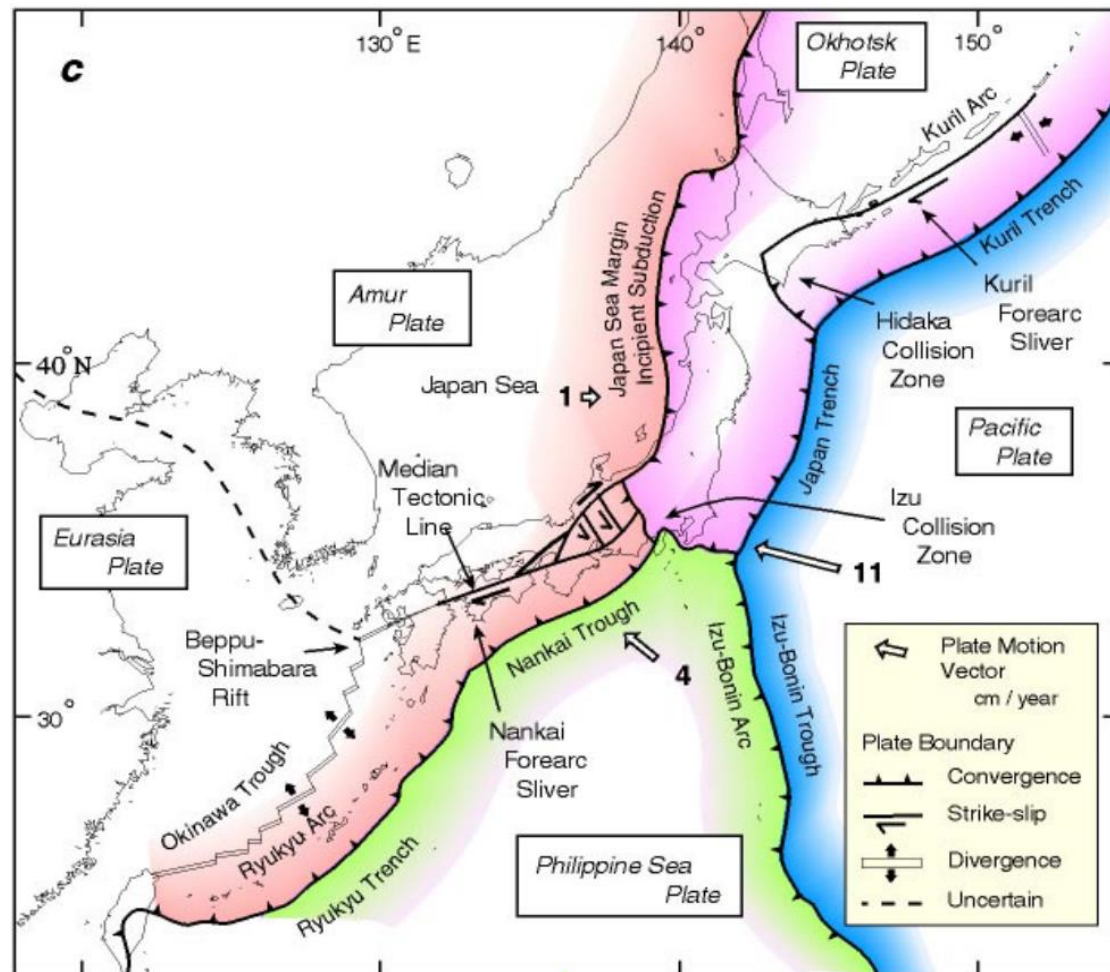


Figure 3. (a) The lithospheric plates in the broader area of Japan (Wei and Seno, 1998), (b) The four major islands that comprise Japan.

Japan is a typical example of an arc – trench system, with the Pacific plate subducting beneath Okhotsk plate and Philippine plate beneath the Eurasian plate. Thus, Japan that was once attached to Asia, began throughout the geological time, to move away due to tensional forces from the subduction and finally was formed as an arc – shaped island arc as we can see in Figure 3b. At the convex side of the arc, deep trenches are formed: Kuril trench, Japan Trench, Izu – Bonin trench, Ryukyu trench and Mariana trench (one of the deepest trenches, with depth exceeding 11000 m).

At the inner concave part, the volcanic arc is formed as the Pacific plate subducts in the hot mantle forming active volcanoes along Japan. If we move further to the interior there is the Japan Sea, that corresponds to the marginal (back – arc) basin of the arc system.



Picture 4 : *Boundaries and convergence of the Tectonic plates in the arch system of Japan. In central Honshu the Median Tectonic Line, MTL is dominant with complex microplate tectonics and right – lateral motion (modified by Taira et al 2000).*

In more details (Fig. 4), the subduction of the Pacific plate at Kuril arc is oblique. This motion resulted in the formation of a collision zone in central Hokkaido (Hidaka collision zone). The subduction continues at the Japan and Izu – Bonin trenches. In addition, the east – west directed convergence between NE Japan (Okhotsk plate) and Amur plate has set in motion a subduction zone on the eastern margin of the Japan Sea (i.e. Nakamura 1983, Tamaki and Honza 1985).

Moreover, Philippine Sea plate and its northwestward subduction that is oblique to both the Nankai trough and the collision zone between Izu – Bonin island arc and Honshu arc leads to the westward migration of a fore arc sliver (Nankai Forearc Sliver) (Fitch 1972).

The Median Tectonic Line (MTL, Figures 4 and 5) corresponds to the region of the forearc of Japan, where a sedimentary basin is formed. The sediments present a difference in the degree of the metamorphism from the trench to the outer side of the arc, as the cold plate subducts and enters the hotter mantle as we can see in the figures below (from Tectonics and Geological Mapping Lab of National and Kapodistrian University of Athens):

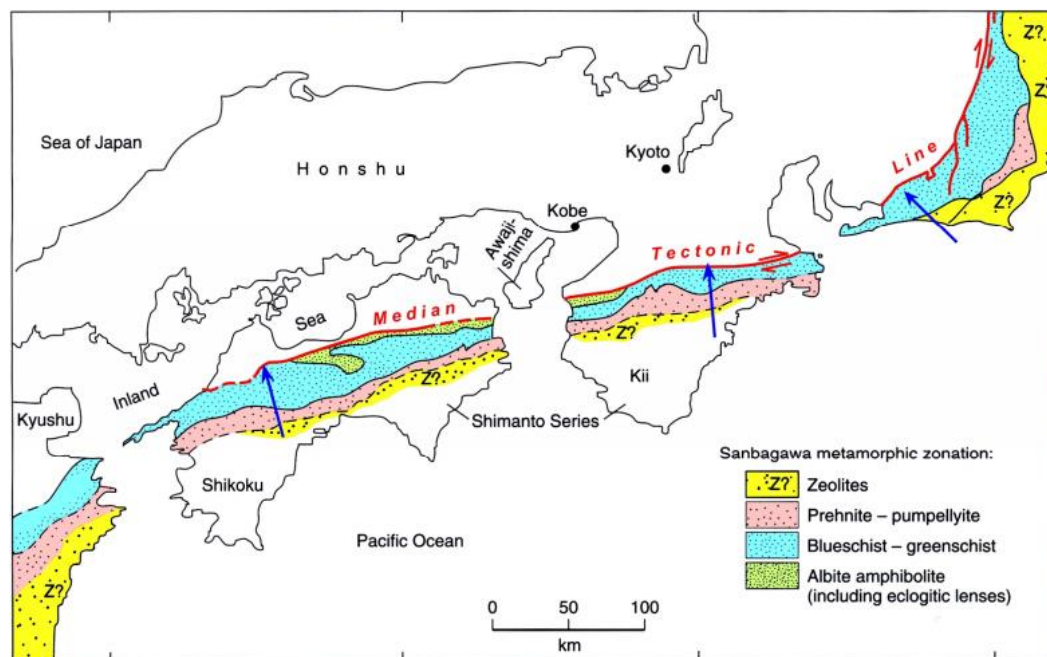


Figure 5. Metamorphism at subduction zones is characterized by a zoning of progressive increase in the degree of the metamorphism from the trench towards the outer side of the arch (from zeolite facies, to prehnite – pumpellyite facies and last to Blueschist – greenschist facies).

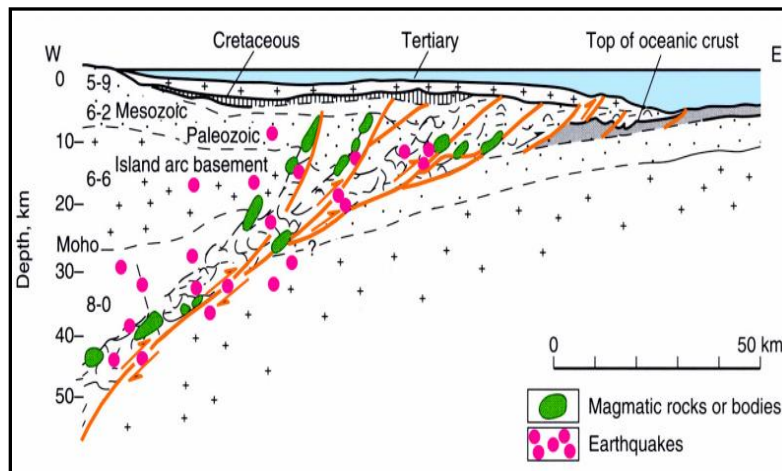


Figure 6. Schematic section of the forearc region of Japan with the Cretaceous and Tertiary sediments, magmatic rocks or bodies and the epicenters of the earthquakes.

Another interesting characteristic of Japan or in general of continental-oceanic convergent plate boundaries is the Wadati – Benioff zone. Figure 6 depicts the significance of shallow and intermediate earthquakes but even the deeper ones ($h > 60\text{ km}$). It is observed that the depth of the earthquakes increases as we move from the outer side to the inner side of the arcs with depths of earthquake foci that can exceed 500 km. Thus, the earthquake foci form an amphitheatric surface that inclines towards the inner part of the arc. This zone of depth earthquakes is called **Wadati – Benioff zone**.

To the depth of 60-80 km, the earthquake foci are on the contact surface of the two converging lithospheric plates, while for greater depths (even up to 720 km) the earthquake foci are located on the upper part of the subducting plate. It has been observed that along some subducting plates there are two parallel seismic zones, one near the upper surface and the other a little deeper (Hasegawa et al., 1978).

2.2 Ring of fire

The ring of fire is related to and is a direct result of motion and convergence of the tectonic plates. Is an area that consists of a nearly continuous series of oceanic trenches, volcanic arcs and volcanic belts. It includes 452 volcanoes, 75% of whom are active or dormant. Also, 90% of earthquakes on the earth and about 80% of the biggest earthquakes occur along this ring. The east part (Figure 7) is a result of the motion of Nazca and Cocos plates that subduct under the South America and the Caribbean, respectively, forming the Andes and volcanoes such as Cotopaxi and Azul.

At the west part, the subduction of Pacific and Philippine plates are responsible for the formation of the Japan Islands and volcanoes, such as the most noted mountain Fuji.

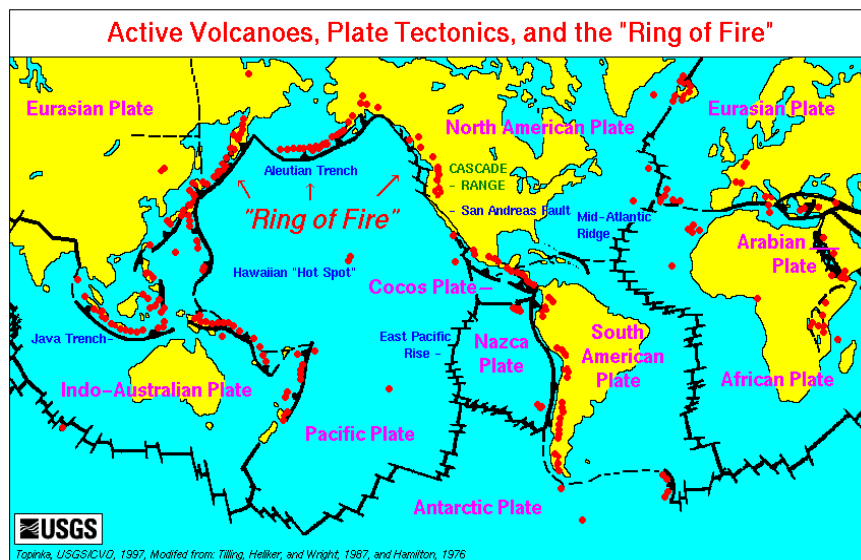


Figure 7. *Ring of Fire – Motion of the tectonic plates.*

Japan is a part of Eurasia and consists of more than 6.000 islands. Many scientists claim that most of those islands were below sea level before Miocene. In early Miocene, the motion of the Pacific, Philippine and Eurasian plates was followed by volcanic activity resulting in the immersion of many of those islands. At the end of Miocene, the recent islands of Japan were formed with volcanic arcs and trenches.

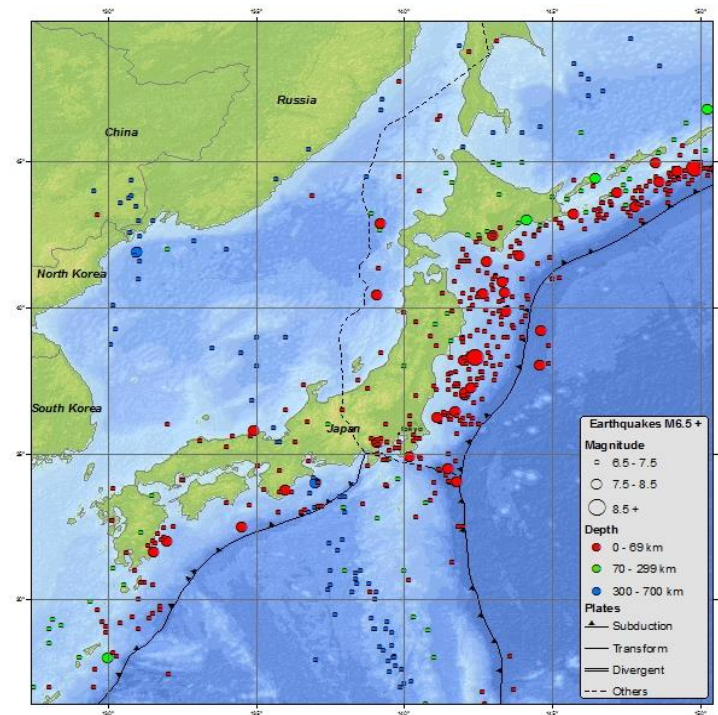


Figure 9. Map of seismicity for M6.5 earthquakes or above, showing also the depths of their foci and the main tectonic features (1900 – March 2012) (USGS).

2.3.1 Major Tectonic Zones

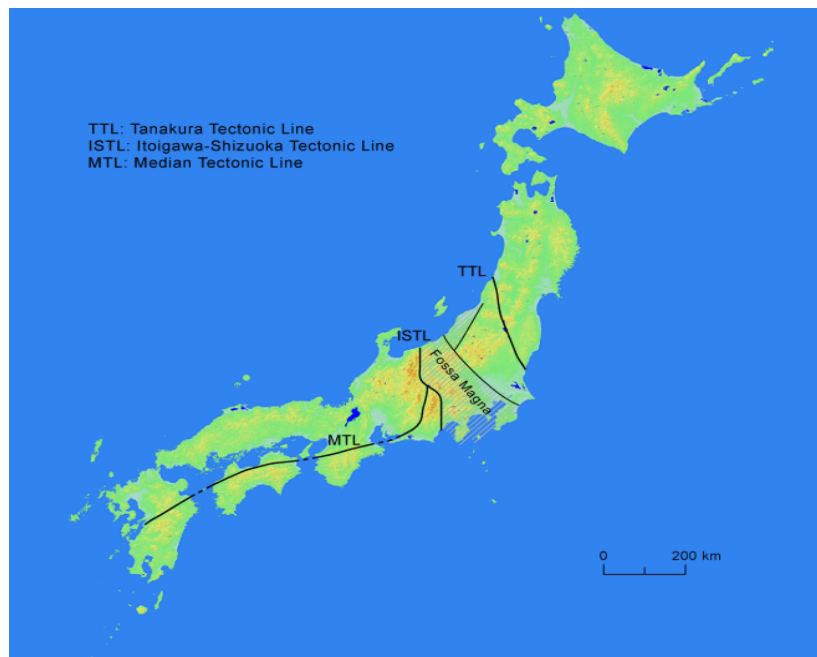


Figure 10. Map of major Tectonic Zones in Japan (GLGArCs).

The major tectonic features in the study area, are:

- **MTL** or Median Tectonic Line, is the longest tectonic line in Japan with length approximately 1.000 km from east to west (from east Kyushu to Central Honshu). Before Miocene its motion was left – lateral, but the recent faults of this zone are of right – lateral motion (Tabei et al., 2002).
- **ISTL** or Itoigawa – Shizuoka Tectonic line, is the line that separates the Japanese island arc to Northern and Southern arc. It is an almost E-W compression zone and can be explained not only by the subduction of Pacific and Philippine plates, but also by a slight east – ward motion of the Eurasian / Amour plate (Wei and Seno, 1998).
- **TTL** or Tanakura Tectonic Line, is a rupture zone formed by strike – slip faults in South Tohoku. It is associated with the North American / Okhotsk plates and Eurasian / Amour plates, whose boundaries, with recent interpretations, extend from Sakhalin island, through the East side of Japan Sea until the Itoigawa – Shizuoka Line (Nakamura, 1983; Seno and Yamanaka, 1996).

2.3.2 Active faults

The last 30 years efforts have been made to map the active faults in Japan (faults showing signs of motion in Quaternary) through topographic analysis and trench excavations. The collection of maps was published by Research Group of Active Faults in Japan (1991) and more recently a portion was presented by Tokuyama et al (1999). The most important findings of the research are reviewed to:

- In Hokkaido, a significant fault system is present along the western foothills of the Hidaka Mountains. This system is part of the foreland thrust belt of the Hidaka collision zone.
- In Western Hokkaido and NE Honshu there is a N – S trending reverse fault system that indicates an E – W compression.
- Central to NE Honshu is dominated by a dense system of strike – slip faults with a direction of NW – SE and NE – SW.

South, these systems are bounded by the Median Tectonic Line (MTL) and can be explained by an E – W compressional stress (Kanaori et al, 1992; Kanaori and Kawakami, 1996).

- In the vicinity of Izu collision zone, the fault system is related to the configuration of the plate boundary (Huchon and Kitazato, 1984).
- In Central Kyushu the westward extension of the Median Tectonic Line connects with a N – S extension zone, which continues to the eastern end of the Okinawa trough (Okamura et al., 1992).

2.4 Crustal Deformation inferred from GPS Geodesy

More than 1000 GPS stations are distributed throughout the Japanese arc with an average spacing of 25-30 Km, constituting one of the densest GPS systems in the world (Abe and Tsuji, 1994; Miyazaki et al., 1997). This GEONET network, is maintained by the Geographical Survey Institute of Japan and provides a detailed image of the deformation of the crust, as it is shown in Figure 11 with the velocity vectors. The data indicate how plate tectonics relates to crustal deformation in an island arc system (Kato et al., 1998; Le Pichon et al., 1998; Sagiya et al., 2000).

The main observations are summarized below:

- From the Pacific side of Hokkaido to NE Honshu, the velocity data (relative to Eurasian plate) show velocities ranging between 3 and 5 cm year⁻¹. This motion represents the elastic strain caused by the westward subduction of the Pacific plate.
- The Pacific side of SW of Japan is characterized by W – NW movement with velocities ranging from 2 to 3 cm year⁻¹. This motion is due to the subduction of the Philippine plate.
- From Southern Kyushu to the Ryukyu arc, data show that the motion is mostly towards southeast, in contrast to the rest of the Pacific side of the arc system. This movement may represent the backarc basin rifting of the Okinawa trough (from the subduction of the Philippine plate under the Eurasian).

- The Japan Sea side of the Honshu arc, including the northern side of the MTL, shows small but constant movement towards the east with the velocity components ranging from a few micrometers to 1 cm year⁻¹. This area belongs to Amour plate. Initially, the existence of this plate was proposed by Zonenshain and Savostin (1981) and its tectonic significance was demonstrated later by Wei and Seno (1998) and Heki et al. (2000).
- The change in the GPS velocity can be explained by examining the strain field. The principal strain axes and shear strain provide further insight.

A zone of high shear strain along the MTL, the northern part of central Japan, and the Japan Sea side of NE Honshu probably marks the principal zone of deformation. This zone has been interpreted as the currently active boundary of the Amour plate and the Pacific side of the Honshu arc (Taira et al. 2000). Therefore, Amour plate plays an important role in intra – arc crustal deformation, which is dominated by east – west compressional stress.

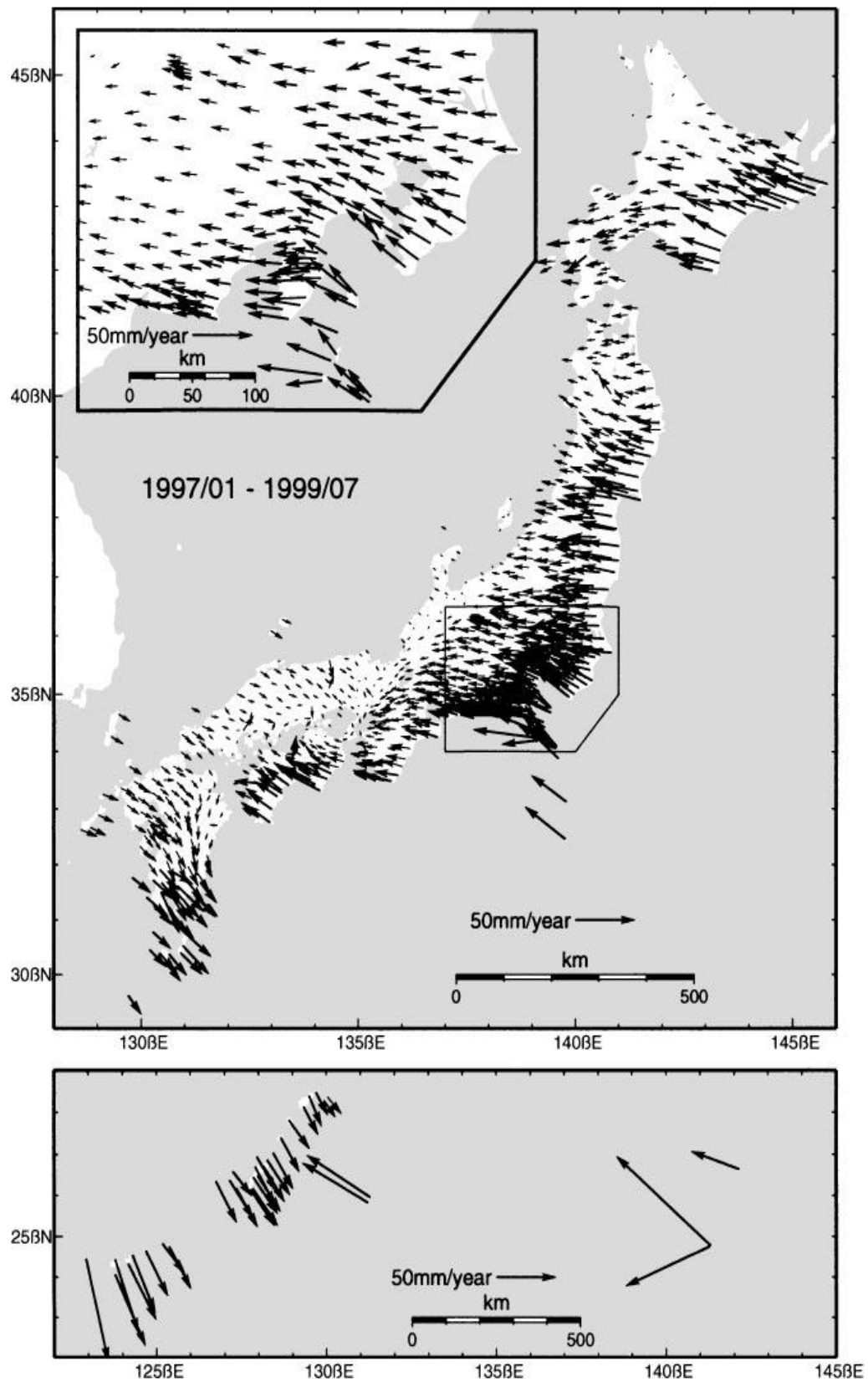


Figure 11. Velocity vectors showing the crustal deformation in the Japan arc system (after Sagiya et al. 2000).

2.5 Surface Geology

The geologic history of the Japan arc is the longest in the west. The oldest rocks are Cambrian and Ordovician ophiolites and associated deep – water sedimentary rocks, which may have been originated in the breakup of the Proterozoic supercontinent (Maruyama, 1997). The majority of the basement rocks, however, consist of younger Jurassic to Paleogene accretionary prisms that precede the formation of the Japan Sea in the middle Miocene (Taira et al. 1989).

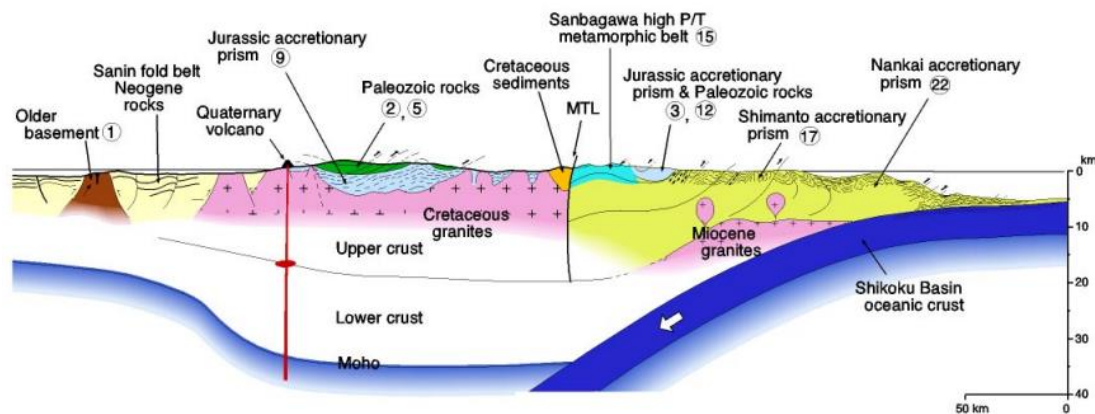


Figure 12. Geological cross section of SW Japan from the Nankai trough to Japan Sea (after Taira et al. 1989 and Maruyama, 1997).

Since the middle Miocene, arc magmatism was the dominant process (Yamaji and Yoshida, 1998; Sato, 1994). In Quaternary, today's tectonic scheme and the modern topography was formed. Two fold – thrust belts were developed at the margin of the Japan Sea after the late Miocene: the Sanin fold-thrust belt in SW Japan (Itoh and Nagasaki, 1996) and the Japan Sea margin of northern Japan (Nakamura 1983) (Figure 12). Tokuyama et al. (1999) discovered that the development of thrusts that involve oceanic basement in the fold-thrust belt of the Japan Sea margin provides a mechanism for ophiolite emplacement.

The geology of the arc can be classified in 5 categories (Taira et al., 1983; Isozaki, 1996):

- Pre – Jurassic units, including Paleozoic ophiolites, sedimentary rocks, metamorphic rocks and granitic rocks.
- Permian to Jurassic accretionary prisms, including high – pressure / temperature (P/T) metamorphic rocks and cover sequences.

- Cretaceous to Tertiary accretionary prisms and cover sequences.
- Neogene and Quaternary igneous and sedimentary rocks.

2.6 Tohoku Region

Tohoku region covers the northeastern portion of Honshu, the largest island of Japan. It is where the Pacific plate is subducting under the plate beneath northern Honshu. The Pacific plate moves at a rate of 8 to 9 cm per year. This motion pushes the upper plate until the accumulated stress causes a seismic slip – rupture event.

The 9.0 magnitude megathrust earthquake occurred on 11 March 2011 in the North – western Pacific Ocean at a relatively shallow depth of about 30 km. An event of this magnitude usually has a rupture length of 500 km and requires a long straight fault surface and because of the fact that the subduction zone in the area of the Honshu rupture is not very straight, this earthquake was a surprise to seismologists.

The main shock was preceded by a number of large foreshocks and followed by hundreds of aftershocks. The first major foreshock was a 7.2 M_w event on 9 March, approximately 40 km from the epicenter of the 11 March event, and other 3 foreshocks on the same day in excess of 6.0 M_w . Following the main event on 11 March, a 6.7 M_w aftershock was reported, succeeded by a 7.6 M_w and a 7.9 M_w events within several hours.

Chapter 3 – Research

I. Introduction

The study of a seismic sequence and the estimation of its evolution during the last decades, has proven to be very essential to predict where or when a major earthquake of the sequence will occur. Still, our observations can't be 100% sure but it helps when it comes to take the appropriate precautions for the area about to get affected.

In order for our prediction to be accurate, we start immediately after the beginning of the seismic excitation (less than one hour, $c \approx 0.03$), we take the measurements from the seismograms, interpret data and calculate the values of the parameters (b, p, etc.) in accordance with time, space and magnitude distribution of the shocks. The procedure is repeated in time intervals that depend on the characteristics of the seismic sequence.

This research is based on catalogs of foreshocks and aftershocks, recorded for the Tohoku region for the 2011 off the Pacific coast of Tohoku earthquake, including date, time of occurrence, latitude, longitude, depth and magnitude (see Appendix).

II. Magnitude distribution

In order for our observations to be accurate we need to determine the magnitude threshold above which no data are missing, i.e. the data are complete. We use the magnitude distribution of earthquakes as described by Gutenberg and Richter (1944) relation:

$$\log N = a - bM$$

The value of the parameter b in this relation characterizes the kind of the seismic sequence, small value for foreshocks, relatively large for aftershocks and even larger for swarms (Papazachos, 1974).

We then plot the logarithm (with base 10) of the cumulative number of aftershocks, figures of $\log N$, against M for a time period of 7, 30 and 100 days after the main

shock (of March 11). Through these plots, with a minimum magnitude of $M_{\min} = 4.1$ and maximum magnitude of $M_{\max} = 7.9$, we find that the completeness magnitude is equal to $M = 4.9$ and the b value is approximately equal to 1.12. Since the completeness magnitude is 4.9, the Least Squares' are applied only on earthquakes of magnitude between 4.9 and 7.9 (the largest aftershock).

The completeness magnitude calculated at this stage, will be used also later in our study.

N , is the number of earthquakes with magnitude equal to and larger than M and a , b are parameters calculated by the observations. Below, we present the plots:

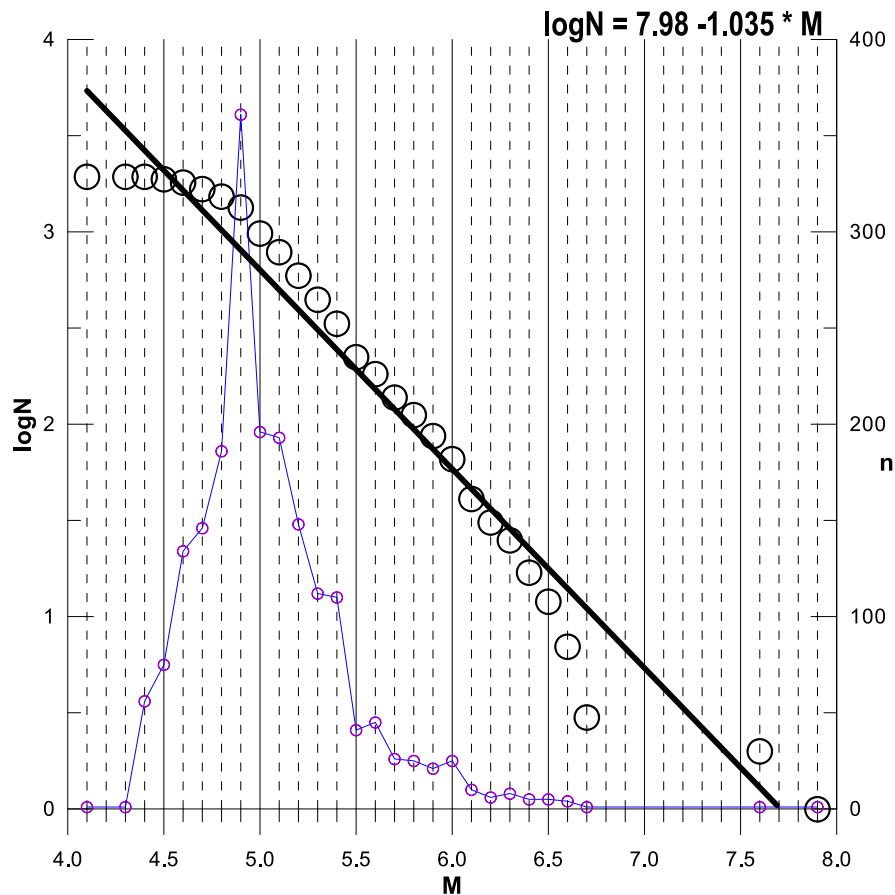


Figure 13a.

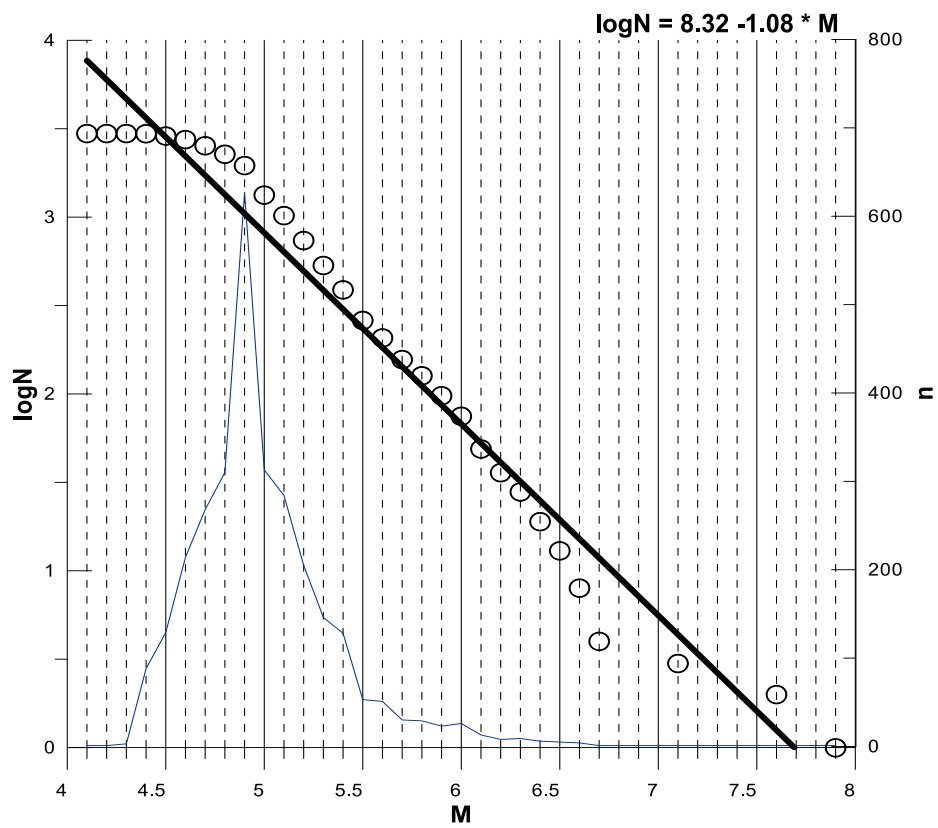


Figure 13b.

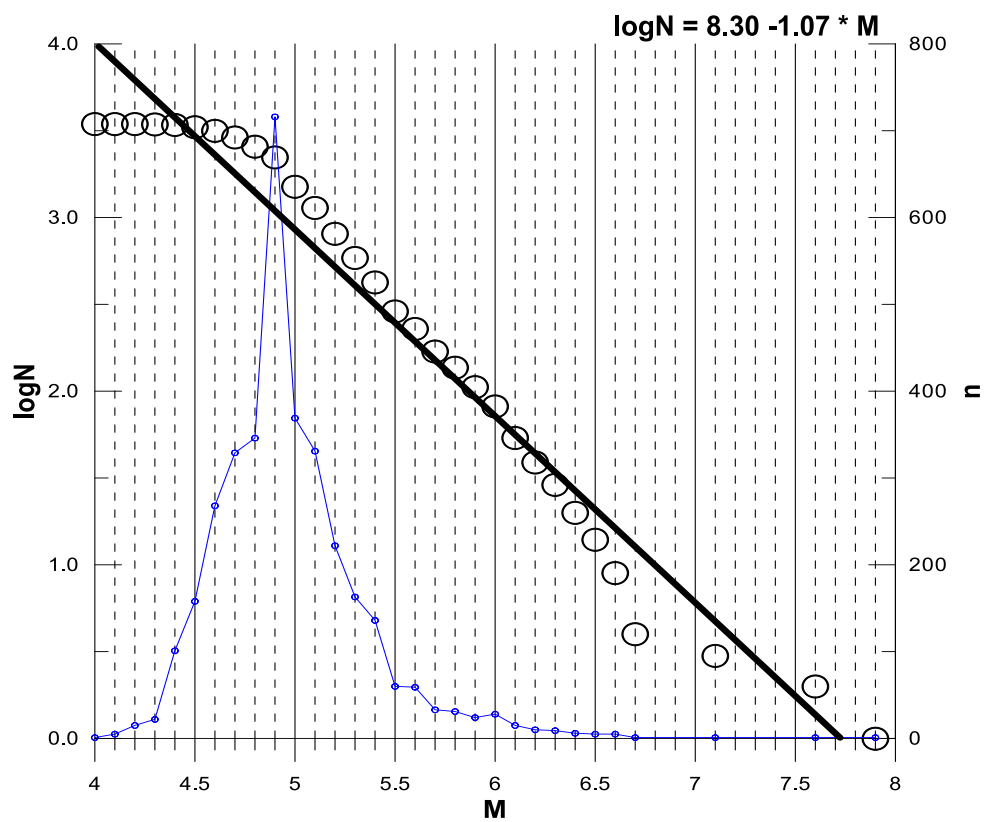


Figure 13c.

Figure 13 shows the variation of the logarithm of the aftershocks against M for a time period of 7 days (13a), 30 days (13b) and 100 days (13c).

We observe that these parameters stay almost constant with a deviation of ± 0.02 which means we expect a normal behavior of the sequence. The parameter b has large value, since it concerns an aftershock sequence.

III. Time Variation

Our next step is to find the time distribution of aftershocks with magnitude larger or equal to the completeness magnitude $M=4.9$ for a time period of 7, 30 and 100 days after the main shock. It is well known that the time distribution of aftershocks follows Omori's law (1894, modified by Utsu, 1961).

To make the following plots we use the relation: $\log n = n_1 - h \log t$ (1), where $n_1 = \log n_0$ and h can be calculated by the least squares' method. The main shock origin time is considered as $t_0 = 0.0$.

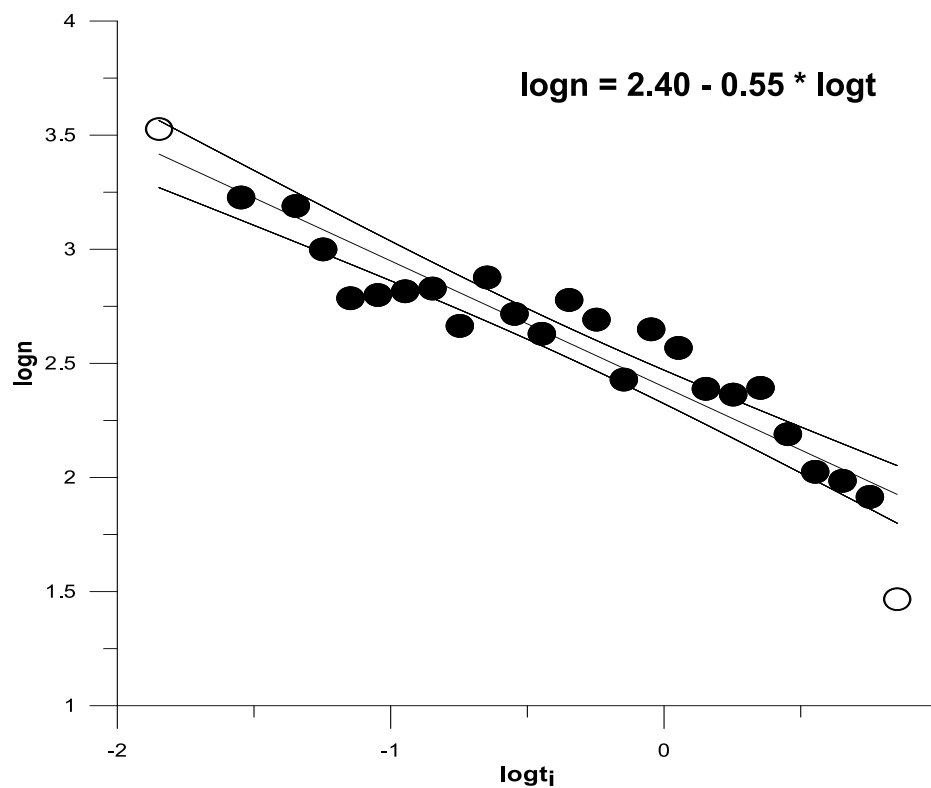


Figure 14a

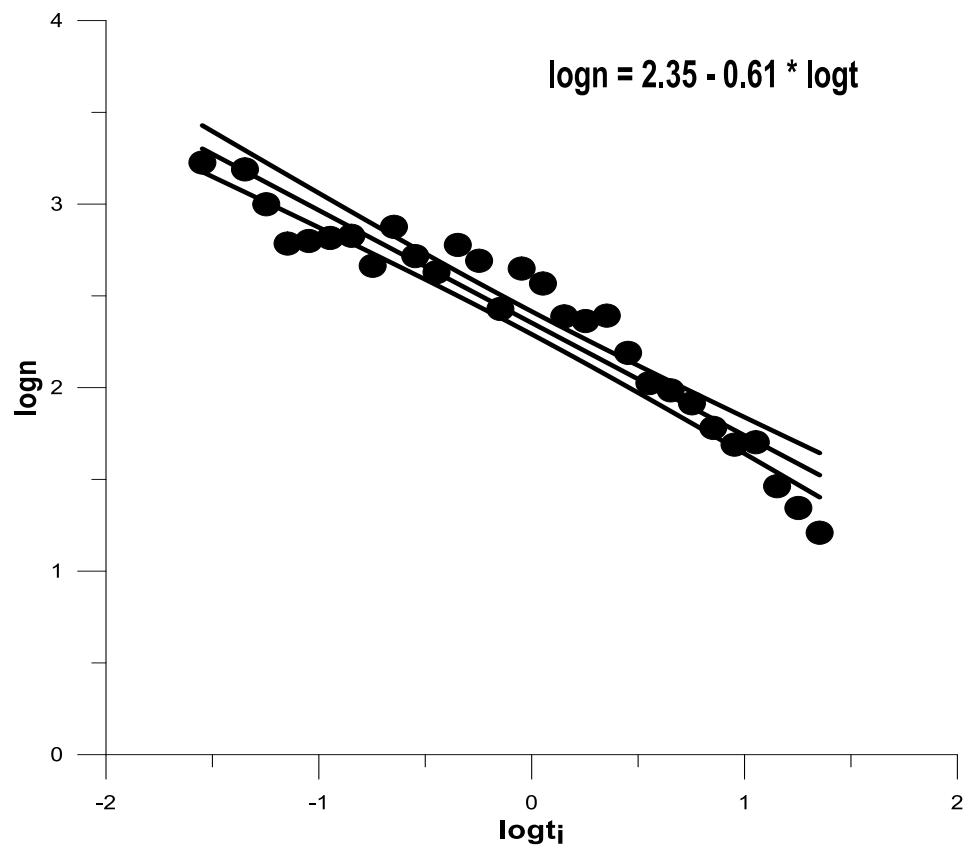


Figure 14b

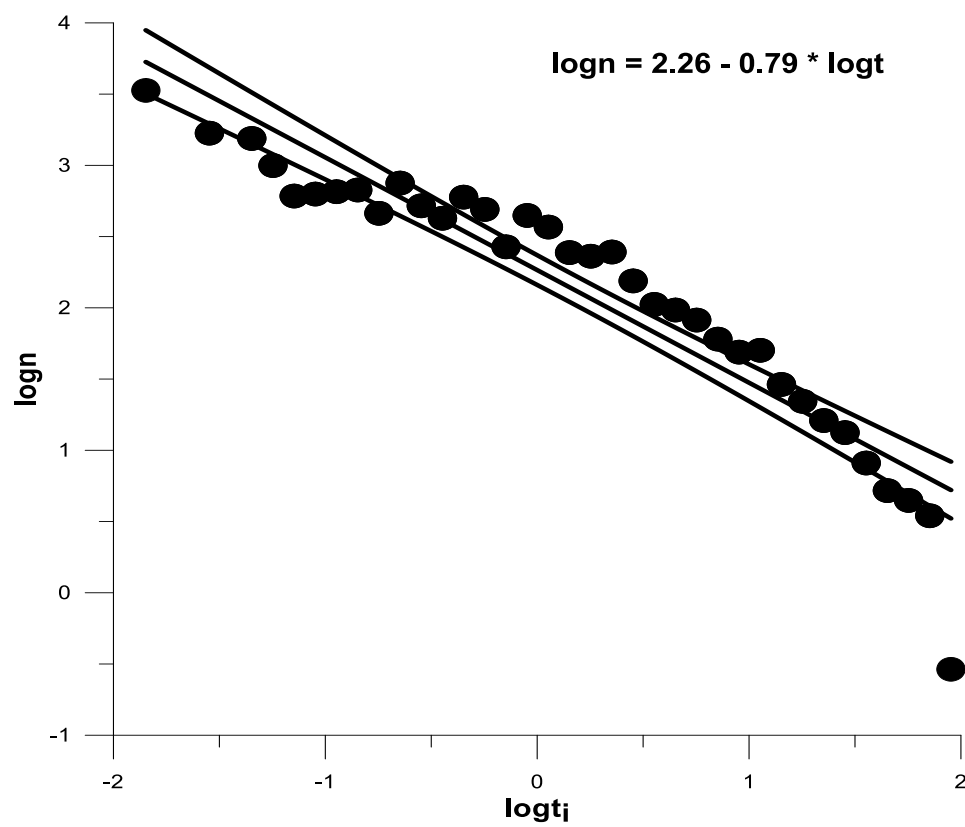


Figure 14c.

Figure 14: shows the time variation of aftershocks within 7 days (14a), 30 days (14b) and 100 days (14c) after the Tohoku earthquake (11.03.2011).

The above figures show the variation of the logarithm of the number of aftershocks of the Tohoku earthquake as a function of the logarithm of time (in days) according to relation (1). The solid straight line in these plots is drawn based on the least squares' method while the other two curved lines define the 95% confidence intervals.

It is noted again that aftershocks decrease with time from the main shock, following a certain law (Omori, 1894). When a deviation from this decrease is observed then the possibility for a non-normal evolution of the seismic sequence is high and the occurrence of a large earthquake is also likely.

In our study the h value is approximately equal to 1 in all three situations (7, 30, 100 days) and is a stable number within the confidence intervals, thus we expect a normal evolution of the seismic sequence.

IV. Time – Space distribution

Since the rupture zone is N – S, we can examine the variation of the latitude of the epicenters of the aftershocks in respect to time after the main shock. Later, we can observe where the seismic activity migrates after the main earthquake, having as goal to predict as much as possible, where the largest aftershock will take place.

Figure 15 below shows the distribution of the epicenters of aftershocks of the seismic fault of the Tohoku earthquake as a function of time.

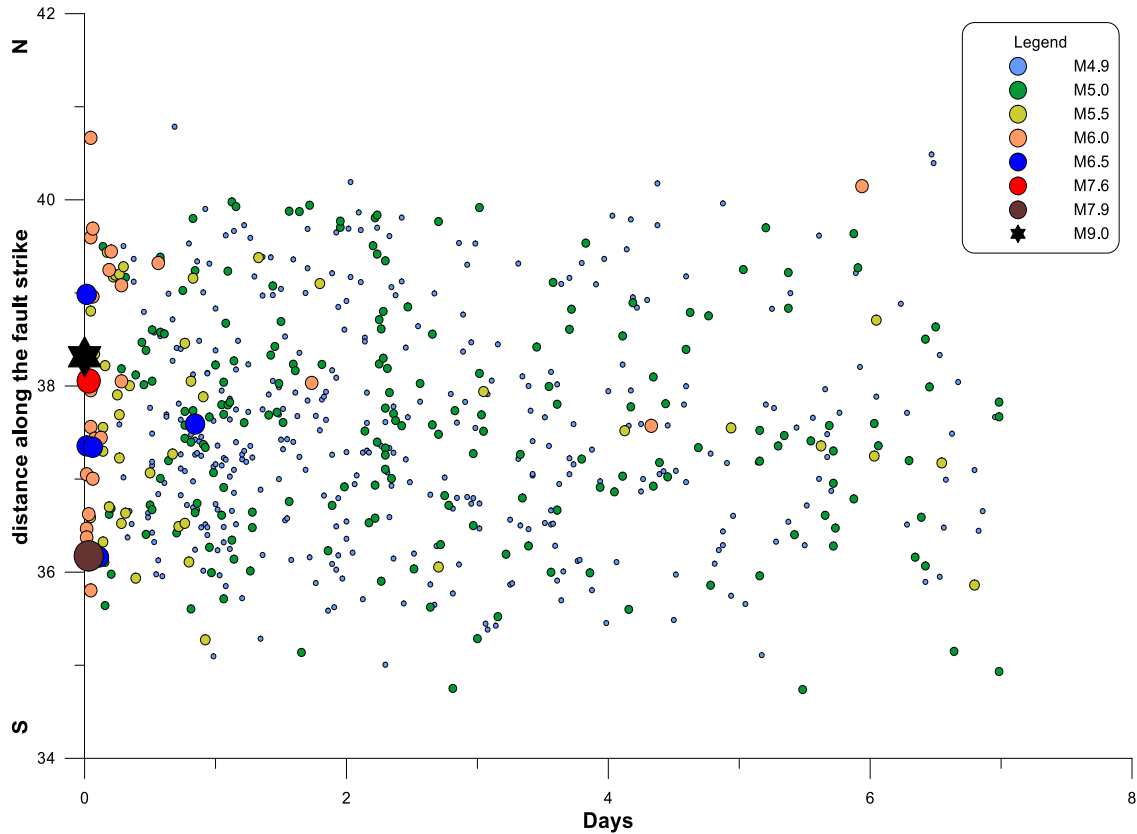


Figure 15: Space – Time distribution of the aftershocks of the Tohoku earthquake. The star shows the main shock of $M = 9.0$ and the colored circles show the aftershocks and their distribution within 8 days.

From Figure 15, we observe that immediately after the generation of the main shock on March 11 from the middle of the fault, the seismic activity migrated more to the south where the largest aftershock occurred after several hours ($M = 7.9$) and where we have the majority of the earthquakes occurring in general.

V. Variation of the mean magnitude and b value with time

At this step we examine the possibility of a change in the mean magnitude and the value of parameter b as a function of time. In order for our results to be comparable, we use a fixed number of earthquakes, for example 100 and a step of 20 shocks.

Below (figure 16), we present the variation of the b-values of these groups of 100 aftershocks as a function of time. The b-value of each group was plotted on the origin time of its last aftershock. The determination of the b-value was based on the classical G-R law as well as on Utsu's relation (1965):

$$b = \frac{\log e}{M_{\text{ave}} - M_{\text{min}}},$$

where M_{ave} is the mean magnitude of the aftershocks of the group considered and M_{min} is the minimum aftershock magnitude (=4.9).

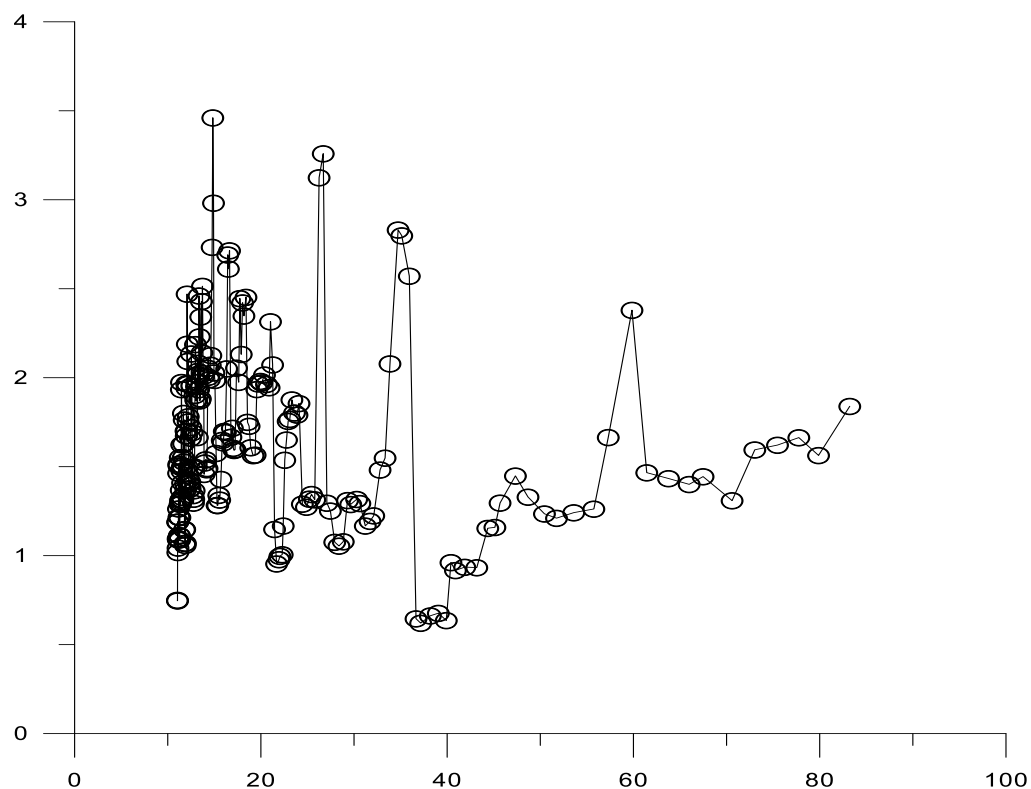


Figure 16a: *b-value variation against time (days) based on Gutenberg and Richter.*

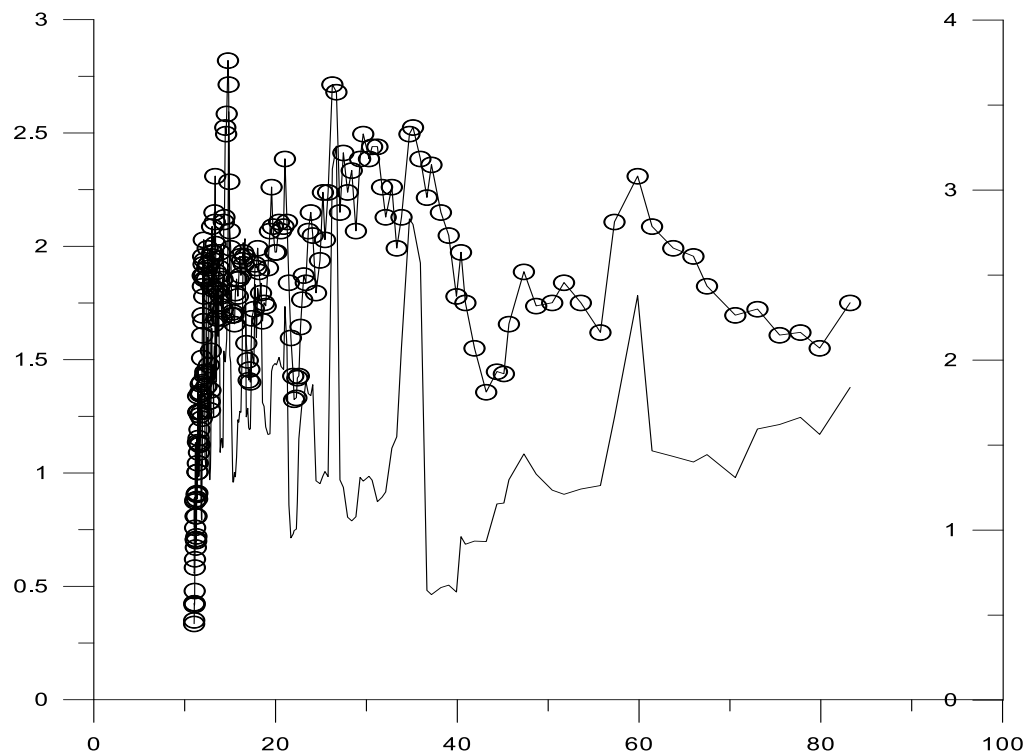


Figure 16b: *b*-value variation against time (days) based on Utsu. The line below the *b*-value distribution derived by Utsu's relation is the same value obtained by the *G*-*R* relation (Figure 16a).

This comparison in Figure 16b is presented in order to show that there are no major differences between the two plots and that we cannot see an earthquake that is related to a certain change in the graph, except of course, the M7.9 earthquake.

Conclusions

Japan has the tectonic setting of an island arc where subduction of the Pacific lithospheric plate has been taking place since the Permian. The understanding of the tectonics of Japan's arc system provides useful insight into orogenesis and continental crustal evolution and is the center of many studies and researches. The GPS geodesy, seismicity and active fault distribution of this arc system is one of the best learning objects in the world providing us with knowledge of how the crustal deformation is related to plate tectonics.

Earthquakes in Japan is an everyday phenomenon. Trying to understand how they occur or where and when is something scientists are still figuring out. Studies of the last decades show the significance of seismic sequences in deciphering earthquakes and how they function. These studies deal with time variation, time-space distribution, magnitude distribution and spatial distribution of earthquakes of a seismic sequence (foreshocks, or/and aftershocks). Thus, observations can be made, through data gathered days before and after the mainshock has occurred, and may reveal if the sequence is evolving normally (then we don't expect strong earthquakes but rather much smaller) or if not then we expect an earthquake of the same or even larger than those that have already occurred.

In this study we used aftershocks of the Tohoku - Oki megathrust earthquake M9.0 on March 11, 2011. We found the b value to be equal to ~ 1.12 , using the Least Squares Method. The completeness magnitude is found to be equal to $M=4.9$. Then we use Omori's law (1894) modified by Utsu (1961) and make plots of time variation of the aftershocks. We observe that the seismic sequence evolved in a normal way with parameter h to be equal to ~ 1 . From the time-space distribution we observe that the fault length, where the earthquakes occurred, corresponds to approximately 5 degrees ($35 - 40$, S - N) and since the arc system we study is a subduction zone we find the fault to have $\sim 500\text{km}$ length, thus the expectation of a large earthquake such as the one on March 11 is very high. Lastly, we examine the b value variation in respect to the time after the mainshock and compare the two results (derived from Gutenberg & Richter and Utsu's relations) to observe that there is not an earthquake relating with certain change except the M7.9, thus we are ensured for the normal continuation of the seismic sequence.

We need to use data such as these (time, time-space, magnitude distribution of foreshocks and aftershocks) as soon as the mainshock occurs to maximize precautions and minimize damage.

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Thessaloniki, 2014

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<http://www.iris.edu/dms/nodes/dmc/specialevents/2011/03/11/tohoku-japan-earthquake/>

U.S. Geological Survey

<http://earthquake.usgs.gov/earthquakes/eqinthenews/2011/usc0001xgp/>

<http://earthquake.usgs.gov/earthquakes/seqs/events/usc0001xgp/>

<http://earthquake.usgs.gov/earthquakes/world/japan/seismicity.php>

Nuclear Waste Management Organization of Japan (NUMO)

https://www.numo.or.jp/en/reports/pdf/Level3_SF_Final-06.pdf

<http://www.numo.or.jp/en/reports/pdf/TR-08-03-2.pdfv>

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http://volcano.oregonstate.edu/vwdocs/volc_images/north_asia/japan_tec.html

<http://volcano.oregonstate.edu/types-volcano-japan>

<http://volcano.oregonstate.edu/book/export/html/368>

Geographical Survey Institute of Japan

<http://www.gsi-mc.go.jp/>

Geological Survey of Japan

<http://www.aist.go.jp/GSJ/>

Earthquake Information Center, Earthquake Research Institute, University of Tokyo

<http://www.eic.eri.u-tokyo.ac.jp/>

APPENDIX

– Foreshock sequence:

YYYY	MMDDHHMMSS	LAT	LON	D	M		
2011	0309024520.33	38.435	142.842	32	7.3	---	PDE-Q
2011	0309025512.66	38.465	143.235	20	5.4	---	PDE-Q
2011	0309025716.67	38.361	142.910	23	5.8	---	PDE-Q
2011	0309025814.08	38.246	143.102	35	5.9	---	PDE-Q
2011	0309030205.98	38.450	143.204	42	5.0	---	PDE-Q
2011	0309030552.24	38.277	142.842	42	4.9	---	PDE-Q
2011	0309030835.77	38.311	143.169	29	5.5	---	PDE-Q
2011	0309031859.71	38.713	143.064	23	5.2	---	PDE-Q
2011	0309035405.91	38.500	143.101	42	4.8	---	PDE-Q
2011	0309040500.25	38.628	143.078	23	5.2	---	PDE-Q
2011	0309040553.79	38.870	142.420	11	5.4	---	PDE-Q
2011	0309040919.50	38.661	143.266	39	4.7	---	PDE-Q
2011	0309041542.14	38.796	142.739	40	5.1	---	PDE-Q
2011	0309043209.69	38.672	143.031	35	5.4	---	PDE-Q
2011	0309043330.97	38.510	143.053	35	5.1	---	PDE-Q
2011	0309043703.76	38.666	142.991	26	5.7	---	PDE-Q
2011	0309044554.08	38.543	142.740	27	5.5	---	PDE-Q
2011	0309044739.56	38.220	143.252	35	5.2	---	PDE-Q
2011	0309052722.81	38.536	143.273	40	5.0	---	PDE-Q
2011	0309053211.06	38.317	143.594	11	4.9	---	PDE-Q
2011	0309061213.44	38.681	143.022	10	5.2	---	PDE-Q
2011	0309061346.47	38.230	143.132	38	5.4	---	PDE-Q
2011	0309062512.34	38.299	143.067	11	5.4	---	PDE-Q
2011	0309062932.32	38.422	143.317	21	4.6	---	PDE-Q
2011	0309071348.46	38.246	143.108	10	5.3	---	PDE-Q
2011	0309075627.74	38.849	142.928	11	5.4	---	PDE-Q
2011	0309080236.36	38.606	143.103	15	5.4	---	PDE-Q
2011	0309085538.34	38.668	143.055	16	5.1	---	PDE-Q
2011	0309101339.56	38.721	143.090	27	5.0	---	PDE-Q
2011	0309112751.57	38.530	143.040	28	5.3	---	PDE-Q
2011	0309120317.71	38.357	143.119	13	5.0	---	PDE-Q
2011	0309134948.72	38.445	143.248	38	4.9	---	PDE-Q
2011	0309142405.90	38.589	143.226	10	5.1	---	PDE-Q
2011	0309165925.76	38.530	143.111	34	4.9	---	PDE-Q
2011	0309181616.44	38.315	142.434	22	6.0	---	PDE-Q
2011	0309184440.53	38.476	143.146	40	5.9	---	PDE-Q
2011	0309191628.64	38.681	143.414	10	4.5	---	PDE-Q

2011	0309191947.56	38.601	143.359	10	4.8	---	PDE-Q
2011	0309210057.72	38.267	142.580	23	5.2	---	PDE-Q
2011	0309212218.06	38.385	142.642	23	6.0	---	PDE-Q
2011	0309212402.73	38.293	142.799	22	6.4	---	PDE-Q
2011	0309224249.72	38.080	142.950	45	4.6	---	PDE-Q
2011	0309233700.75	38.438	143.185	33	5.6	---	PDE-Q
2011	0309234353.60	38.181	143.144	33	5.0	---	PDE-Q
2011	0309235741.79	38.308	143.275	20	5.1	---	PDE-Q
2011	0310004639.71	38.304	143.340	35	5.1	---	PDE-Q
2011	0310012023.07	38.381	143.095	24	5.2	---	PDE-Q
2011	0310035457.22	38.314	143.430	34	4.9	---	PDE-Q
2011	0310041359.69	38.388	143.474	28	4.9	---	PDE-Q
2011	0310073304.40	38.954	142.458	20	5.1	---	PDE-Q
2011	0310080820.97	38.612	143.280	20	5.6	---	PDE-Q
2011	0310085919.34	38.547	143.295	20	5.2	---	PDE-Q
2011	0310090221.96	38.652	143.146	22	5.5	---	PDE-Q
2011	0310092635.01	38.568	143.406	21	4.9	---	PDE-Q
2011	0310112108.40	38.611	143.049	18	5.5	---	PDE-Q
2011	0310112938.72	38.250	143.239	20	5.0	---	PDE-Q
2011	0310144531.94	39.213	143.378	29	4.8	---	PDE-Q
2011	0310165445.03	38.046	143.295	4	5.4	---	PDE-Q
2011	0310181400.00	38.800	140.900	10	4.3	---	JMA
2011	0310214946.80	38.590	143.086	26	5.0	---	PDE-Q
2011	0310224509.09	38.654	143.392	35	5.0	---	PDE-Q
2011	0311014126.93	38.517	143.381	11	4.6	---	PDE-Q
2011	0311041232.68	38.191	143.154	32	4.6	---	PDE-Q

—Aftershock sequence:

YYYY	MMDDHHMMSS	LAT	LON	D	M		
2011	0311054624.68	38.320	142.351	32	9.0	---	PDE-Q
2011	0311055431.94	37.712	141.184	32	6.4	---	PDE-Q
2011	0311055545.48	37.359	143.351	35	6.5	---	PDE-Q
2011	0311055807.49	37.623	142.155	51	6.4	---	PDE-Q
2011	0311055931.58	37.054	141.763	8	6.0	---	PDE-Q
2011	0311060039.30	38.095	142.492	41	6.3	---	PDE-Q
2011	0311060355.26	36.469	141.840	23	6.0	---	PDE-Q
2011	0311060502.23	36.375	141.777	34	6.0	---	PDE-Q
2011	0311060613.44	38.987	142.276	44	6.5	---	PDE-Q
2011	0311060719.55	36.394	141.849	21	6.6	---	PDE-Q
2011	0311060829.66	38.969	143.370	3	6.7	---	PDE-Q

2011	0311061115.61	36.109	141.696	27	6.0	---	PDE-Q
2011	0311061236.36	37.788	144.233	25	6.3	---	PDE-Q
2011	0311061301.04	37.211	141.601	40	6.3	---	PDE-Q
2011	0311061523.12	37.930	143.802	35	6.4	---	PDE-Q
2011	0311061540.88	36.179	141.172	39	7.9	---	CSEM
2011	0311061849.51	36.023	142.269	16	6.6	---	PDE-Q
2011	0311062004.11	36.004	142.067	49	6.6	---	PDE-Q
2011	0311062132.70	38.290	142.813	52	6.3	---	PDE-Q
2011	0311062309.90	39.038	142.283	60	6.3	---	PDE-Q
2011	0311062550.25	38.058	144.591	18	7.6	---	CSEM
2011	0311062916.16	37.827	144.214	42	6.2	---	PDE-Q
2011	0311063306.07	36.625	141.867	39	6.0	---	PDE-Q
2011	0311063520.90	35.806	141.100	10	6.0	---	PDE-Q
2011	0311063705.58	37.465	142.404	52	5.8	---	PDE-Q
2011	0311063811.33	36.094	141.665	47	6.0	---	PDE-Q
2011	0311063939.32	37.040	142.463	40	5.7	---	PDE-Q
2011	0311064101.45	39.599	141.576	35	6.0	---	PDE-Q
2011	0311064210.53	34.880	141.916	36	5.4	---	PDE-Q
2011	0311064310.57	38.066	144.627	26	5.6	---	PDE-Q
2011	0311064454.99	36.588	141.100	23	5.5	---	PDE-Q
2011	0311064631.20	37.956	143.248	31	6.0	---	PDE-Q
2011	0311064818.80	38.807	141.946	47	5.5	---	PDE-Q
2011	0311064847.42	37.993	142.764	22	6.3	---	PDE-Q
2011	0311064916.61	37.337	144.237	47	6.2	---	PDE-Q
2011	0311064958.24	40.668	141.569	51	6.0	---	PDE-Q
2011	0311065228.51	38.061	143.016	34	5.7	---	PDE-Q
2011	0311065408.49	36.974	141.493	10	5.6	---	PDE-Q
2011	0311065533.60	37.562	142.855	40	6.0	---	PDE-Q
2011	0311065716.50	35.712	140.875	47	6.1	---	PDE-Q
2011	0311065901.38	37.345	144.808	38	6.5	---	PDE-Q
2011	0311070111.64	36.628	143.755	36	5.9	---	PDE-Q
2011	0311070257.26	39.693	142.529	41	6.0	---	PDE-Q
2011	0311070416.20	38.963	142.397	24	6.0	---	PDE-Q
2011	0311070521.10	38.442	143.600	15	5.9	---	PDE-Q
2011	0311070645.82	37.778	142.980	22	5.8	---	PDE-Q
2011	0311070911.51	36.714	141.872	24	5.9	---	PDE-Q
2011	0311070954.12	36.716	141.900	6	5.8	---	PDE-Q
2011	0311071059.89	37.879	142.681	34	5.9	---	PDE-Q
2011	0311071347.62	36.103	142.358	35	5.9	---	PDE-Q
2011	0311071458.82	36.586	141.824	25	6.4	---	PDE-Q
2011	0311071742.76	37.006	142.406	6	6.0	---	PDE-Q

2011	0311072314.21	37.437	142.078	4	6.0	---	PDE-Q
2011	0311072536.46	37.934	144.529	40	6.2	---	PDE-Q
2011	0311072812.36	36.823	141.824	28	6.2	---	PDE-Q
2011	0311072901.83	39.032	142.349	45	6.4	---	PDE-Q
2011	0311073018.45	37.442	141.195	49	6.1	---	PDE-Q
2011	0311073333.66	36.323	142.710	35	5.9	---	PDE-Q
2011	0311073458.35	37.908	142.952	39	5.9	---	PDE-Q
2011	0311073552.22	36.943	142.309	21	5.9	---	PDE-Q
2011	0311073827.60	39.204	142.794	38	5.9	---	PDE-Q
2011	0311074053.35	38.345	142.191	16	5.5	---	PDE-Q
2011	0311074255.65	36.403	141.892	35	5.8	---	PDE-Q
2011	0311074427.99	36.195	141.813	14	6.0	---	PDE-Q
2011	0311074749.42	38.726	143.837	21	5.4	---	PDE-Q
2011	0311074809.77	36.951	142.162	3	5.4	---	PDE-Q
2011	0311074948.51	36.520	141.762	27	5.6	---	PDE-Q
2011	0311075153.41	36.554	141.675	44	5.3	---	PDE-Q
2011	0311075329.18	36.734	141.959	42	5.3	---	PDE-Q
2011	0311075403.54	38.836	142.431	55	5.2	---	PDE-Q
2011	0311075445.42	37.743	141.573	51	5.8	---	PDE-Q
2011	0311075615.41	37.106	142.226	38	5.7	---	PDE-Q
2011	0311075948.97	37.012	142.780	1	5.9	---	PDE-Q
2011	0311080124.15	36.983	142.815	35	5.4	---	PDE-Q
2011	0311080157.00	36.936	142.700	19	5.9	---	PDE-Q
2011	0311080458.78	37.593	142.208	49	5.9	---	PDE-Q
2011	0311080620.68	37.569	142.823	21	5.6	---	PDE-Q
2011	0311081030.76	36.394	140.631	30	5.8	---	PDE-Q
2011	0311081207.26	36.570	141.487	40	6.3	---	PDE-Q
2011	0311081541.85	37.047	144.541	41	6.2	---	PDE-Q
2011	0311081924.38	36.166	141.562	6	6.5	---	PDE-Q
2011	0311082636.93	37.367	143.017	17	6.2	---	PDE-Q
2011	0311082751.58	38.018	142.658	43	6.1	---	PDE-Q
2011	0311083109.26	37.469	141.176	37	6.1	---	PDE-Q
2011	0311083300.78	39.140	142.967	28	6.1	---	PDE-Q
2011	0311083522.11	36.033	140.984	20	5.8	---	PDE-Q
2011	0311083801.51	37.704	143.833	9	5.6	---	PDE-Q
2011	0311083913.17	37.636	142.766	48	5.7	---	PDE-Q
2011	0311084056.14	37.446	140.984	40	6.0	---	PDE-Q
2011	0311084400.20	35.883	141.340	43	5.8	---	PDE-Q
2011	0311084645.85	37.415	142.451	26	5.7	---	PDE-Q
2011	0311084826.65	36.505	141.909	48	5.4	---	PDE-Q
2011	0311085105.36	37.556	143.642	35	5.5	---	PDE-Q

2011	0311085204.66	36.326	141.098	41	5.5	---	PDE-Q
2011	0311085223.76	36.767	141.922	19	5.6	---	PDE-Q
2011	0311085401.38	36.560	141.717	39	5.1	---	PDE-Q
2011	0311085507.52	36.607	141.597	37	5.3	---	PDE-Q
2011	0311085607.62	38.797	142.292	35	5.2	---	PDE-Q
2011	0311090014.52	37.281	142.497	23	5.4	---	PDE-Q
2011	0311090339.36	39.499	143.826	10	5.0	---	PDE-Q
2011	0311090410.00	37.299	142.655	31	5.6	---	PDE-Q
2011	0311090534.02	37.301	142.674	12	5.5	---	PDE-Q
2011	0311090603.13	37.403	143.997	35	5.4	---	PDE-Q
2011	0311090914.68	37.717	143.267	36	5.6	---	PDE-Q
2011	0311091133.09	37.491	142.863	42	5.2	---	PDE-Q
2011	0311091427.93	35.642	141.879	35	5.0	---	PDE-Q
2011	0311091731.06	39.837	143.668	35	5.1	---	PDE-Q
2011	0311091845.90	36.065	142.112	35	5.2	---	PDE-Q
2011	0311091907.84	37.439	144.130	10	5.3	---	PDE-Q
2011	0311092429.18	36.198	141.451	35	5.2	---	PDE-Q
2011	0311092549.84	36.107	141.864	21	5.0	---	PDE-Q
2011	0311092736.00	38.220	142.270	33	5.5	---	MOS
2011	0311093118.07	36.584	142.169	53	5.1	---	PDE-Q
2011	0311093351.33	38.576	144.455	35	5.1	---	PDE-Q
2011	0311093412.77	37.696	142.650	35	5.3	---	PDE-Q
2011	0311093535.51	37.572	143.889	26	5.2	---	PDE-Q
2011	0311093708.42	35.878	141.585	30	5.6	---	PDE-Q
2011	0311094011.12	37.138	142.501	41	5.2	---	PDE-Q
2011	0311094222.46	39.438	142.749	30	5.5	---	PDE-Q
2011	0311094525.08	36.664	142.299	35	5.3	---	PDE-Q
2011	0311094544.22	37.397	144.121	35	5.3	---	PDE-Q
2011	0311094701.73	39.685	142.938	30	5.6	---	PDE-Q
2011	0311095106.65	36.223	141.822	47	5.4	---	PDE-Q
2011	0311095243.84	37.715	141.812	55	5.3	---	PDE-Q
2011	0311095500.03	38.120	143.068	10	5.2	---	PDE-Q
2011	0311095527.18	37.409	141.687	35	5.1	---	PDE-Q
2011	0311095831.09	37.876	142.702	35	5.1	---	PDE-Q
2011	0311095956.93	36.703	142.207	42	5.5	---	PDE-Q
2011	0311100027.20	37.295	143.158	21	5.4	---	PDE-Q
2011	0311100511.87	36.623	141.715	35	5.0	---	PDE-Q
2011	0311101015.33	38.830	142.703	5	5.2	---	PDE-Q
2011	0311101034.84	39.248	142.779	29	6.0	---	PDE-Q
2011	0311101549.41	35.808	140.983	35	5.3	---	PDE-Q
2011	0311101951.61	36.047	141.611	22	5.2	---	PDE-Q

2011	0311102027.34	36.966	142.289	22	5.6	---	PDE-Q
2011	0311102109.35	37.256	142.032	43	5.6	---	PDE-Q
2011	0311102155.67	37.970	142.863	35	5.4	---	PDE-Q
2011	0311102202.63	36.665	142.521	10	5.9	---	PDE-Q
2011	0311102653.60	36.685	141.500	35	5.0	---	PDE-Q
2011	0311102821.04	37.961	143.571	35	5.3	---	PDE-Q
2011	0311102844.12	39.447	143.531	29	6.0	---	PDE-Q
2011	0311103535.72	37.044	141.298	26	5.4	---	PDE-Q
2011	0311103922.78	35.979	141.852	35	5.0	---	PDE-Q
2011	0311104408.03	38.387	143.116	35	5.3	---	PDE-Q
2011	0311104519.32	35.888	141.388	12	5.6	---	PDE-Q
2011	0311104546.28	38.466	143.591	41	5.7	---	PDE-Q
2011	0311104708.97	37.491	143.050	6	5.4	---	PDE-Q
2011	0311105207.78	38.534	143.346	30	5.3	---	PDE-Q
2011	0311105550.81	37.076	142.436	35	5.2	---	PDE-Q
2011	0311105726.24	36.391	142.717	35	5.1	---	PDE-Q
2011	0311105805.59	39.060	142.213	30	5.4	---	PDE-Q
2011	0311110017.37	37.463	143.893	35	5.2	---	PDE-Q
2011	0311110051.25	37.813	141.481	29	5.7	---	PDE-Q
2011	0311110230.04	39.173	142.965	47	5.5	---	PDE-Q
2011	0311110644.44	37.024	142.544	35	5.4	---	PDE-Q
2011	0311110847.39	37.437	142.615	49	5.2	---	PDE-Q
2011	0311110945.83	36.481	143.265	35	5.4	---	PDE-Q
2011	0311111057.82	35.534	141.856	28	5.6	---	PDE-Q
2011	0311111312.36	36.451	141.789	18	5.6	---	PDE-Q
2011	0311111556.25	39.193	143.323	52	5.5	---	PDE-Q
2011	0311111650.70	36.614	141.894	37	5.6	---	PDE-Q
2011	0311112129.79	37.547	143.073	35	5.8	---	PDE-Q
2011	0311112531.74	35.571	142.011	9	5.4	---	PDE-Q
2011	0311112718.49	39.128	143.369	10	5.6	---	PDE-Q
2011	0311112851.41	38.521	142.168	31	5.4	---	PDE-Q
2011	0311113019.15	39.219	143.430	13	5.6	---	PDE-Q
2011	0311113214.76	36.231	142.403	35	5.7	---	PDE-Q
2011	0311113525.32	37.906	144.783	18	5.5	---	PDE-Q
2011	0311113639.10	39.276	142.521	12	6.6	---	PDE-Q
2011	0311114208.32	39.319	142.906	10	5.6	---	PDE-Q
2011	0311114428.23	36.709	142.231	31	5.8	---	PDE-Q
2011	0311114646.90	36.034	141.055	48	5.8	---	PDE-Q
2011	0311114922.55	37.900	144.486	22	5.3	---	PDE-Q
2011	0311115323.66	39.149	142.662	9	5.0	---	PDE-Q
2011	0311115402.13	36.982	142.535	45	5.4	---	PDE-Q

2011	0311115521.30	37.228	142.703	10	5.5	---	PDE-Q
2011	0311115634.94	37.693	143.014	25	5.5	---	PDE-Q
2011	0311115716.06	39.202	142.094	44	5.5	---	PDE-Q
2011	0311115854.41	35.752	142.080	35	5.8	---	PDE-Q
2011	0311120144.35	39.143	143.211	35	5.2	---	PDE-Q
2011	0311120416.46	36.351	142.700	38	5.4	---	PDE-Q
2011	0311120752.81	37.588	144.053	35	4.9	---	PDE-Q
2011	0311120846.95	37.122	142.654	35	4.7	---	PDE-Q
2011	0311121019.10	38.899	144.640	35	5.3	---	PDE-Q
2011	0311121253.04	38.052	142.542	22	6.0	---	PDE-Q
2011	0311121545.32	39.084	142.264	50	6.0	---	PDE-Q
2011	0311122117.09	37.216	142.385	35	5.2	---	PDE-Q
2011	0311122217.38	39.294	142.666	53	4.9	---	PDE-Q
2011	0311122429.81	39.629	143.478	8	4.6	---	PDE-Q
2011	0311122437.40	36.525	141.707	28	5.5	---	PDE-Q
2011	0311122751.61	38.186	142.967	63	5.0	---	PDE-Q
2011	0311122844.84	36.166	141.664	29	5.4	---	PDE-Q
2011	0311123318.54	38.374	142.590	30	5.4	---	PDE-Q
2011	0311123431.83	37.463	143.301	10	5.6	---	PDE-Q
2011	0311123521.68	39.283	143.512	10	5.5	---	PDE-Q
2011	0311123809.77	37.019	142.156	29	4.9	---	PDE-Q
2011	0311124625.14	36.780	141.736	35	4.5	---	PDE-Q
2011	0311124827.14	37.040	143.978	42	4.6	---	PDE-Q
2011	0311124901.46	36.158	141.711	25	5.7	---	PDE-Q
2011	0311125057.62	39.504	143.589	17	4.9	---	PDE-Q
2011	0311125354.60	37.721	142.231	35	4.7	---	PDE-Q
2011	0311125452.00	38.502	142.120	37	5.6	---	PDE-Q
2011	0311125605.33	37.795	141.960	35	5.7	---	PDE-Q
2011	0311125921.02	36.128	141.768	25	5.4	---	PDE-Q
2011	0311130244.15	36.636	141.811	42	5.5	---	PDE-Q
2011	0311130814.10	39.168	142.598	35	5.0	---	PDE-Q
2011	0311131310.36	37.882	143.321	35	5.1	---	PDE-Q
2011	0311131440.23	37.744	143.762	35	5.4	---	PDE-Q
2011	0311131544.00	37.570	141.870	33	5.4	---	MOS
2011	0311131649.70	36.304	141.730	30	5.7	---	PDE-Q
2011	0311131816.63	37.575	142.827	35	5.7	---	PDE-Q
2011	0311132116.01	37.220	143.095	35	4.8	---	PDE-Q
2011	0311132205.78	36.374	141.887	7	4.9	---	PDE-Q
2011	0311132340.83	37.421	141.482	27	4.4	---	PDE-Q
2011	0311132458.65	37.311	143.630	35	4.7	---	PDE-Q
2011	0311132626.39	35.789	142.135	35	5.3	---	PDE-Q

2011	0311132911.28	36.998	142.183	12	4.8	---	PDE-Q
2011	0311133154.54	39.152	142.837	25	5.3	---	PDE-Q
2011	0311133334.82	36.176	141.732	23	4.7	---	PDE-Q
2011	0311133436.62	36.218	141.798	41	5.7	---	PDE-Q
2011	0311133857.72	37.444	144.380	35	4.8	---	PDE-Q
2011	0311134228.31	37.334	142.007	44	5.3	---	PDE-Q
2011	0311134312.28	39.013	144.079	41	5.8	---	PDE-Q
2011	0311134741.60	36.876	141.114	52	5.3	---	PDE-Q
2011	0311134829.40	36.635	141.878	35	5.3	---	PDE-Q
2011	0311135033.06	37.240	144.260	32	5.2	---	PDE-Q
2011	0311135210.17	36.655	141.888	30	4.9	---	PDE-Q
2011	0311135339.53	36.378	141.974	35	4.6	---	PDE-Q
2011	0311135436.80	37.667	142.727	10	4.4	---	PDE-Q
2011	0311135529.51	38.005	142.864	51	5.5	---	PDE-Q
2011	0311135601.60	37.217	142.144	47	5.4	---	PDE-Q
2011	0311135849.52	36.681	141.776	25	5.2	---	PDE-Q
2011	0311140035.31	36.123	140.749	24	5.7	---	PDE-Q
2011	0311140447.41	36.799	142.212	10	4.6	---	PDE-Q
2011	0311140736.76	39.173	142.376	19	4.6	---	PDE-Q
2011	0311140857.60	36.734	143.149	35	4.8	---	PDE-Q
2011	0311141037.68	37.497	141.950	25	5.4	---	PDE-Q
2011	0311141143.96	36.518	141.852	24	4.9	---	PDE-Q
2011	0311141344.85	37.555	142.902	10	4.6	---	PDE-Q
2011	0311141906.46	36.219	141.697	25	5.1	---	PDE-Q
2011	0311142016.22	37.546	143.221	24	5.3	---	PDE-Q
2011	0311142120.75	37.069	142.130	28	5.3	---	PDE-Q
2011	0311142630.79	37.431	142.254	13	5.3	---	PDE-Q
2011	0311142757.62	37.086	144.065	26	5.6	---	PDE-Q
2011	0311142850.85	38.242	141.889	54	4.7	---	PDE-Q
2011	0311143159.60	35.882	141.499	35	5.1	---	PDE-Q
2011	0311143210.57	39.366	143.460	35	4.9	---	PDE-Q
2011	0311143604.32	36.922	143.838	35	4.8	---	PDE-Q
2011	0311143736.22	38.608	144.269	19	5.1	---	PDE-Q
2011	0311143828.97	39.121	143.002	26	4.9	---	PDE-Q
2011	0311144154.26	37.464	142.845	16	4.8	---	PDE-Q
2011	0311144407.57	36.655	140.769	25	5.4	---	PDE-Q
2011	0311144909.48	38.118	144.287	6	5.3	---	PDE-Q
2011	0311145406.46	35.937	141.810	48	5.5	---	PDE-Q
2011	0311145619.42	35.990	141.269	56	5.9	---	PDE-Q
2011	0311150138.65	39.082	142.383	26	5.3	---	PDE-Q
2011	0311150357.28	38.120	143.041	18	5.0	---	PDE-Q

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2011	0311150624.31	37.283	141.741	31	5.3	---	PDE-Q
2011	0311150739.53	36.332	141.540	15	5.7	---	PDE-Q
2011	0311151026.35	35.973	141.449	35	5.1	---	PDE-Q
2011	0311151209.49	37.034	141.929	58	4.6	---	PDE-Q
2011	0311151315.71	36.003	141.783	25	6.3	---	PDE-Q
2011	0311152008.19	36.398	141.864	52	5.9	---	PDE-Q
2011	0311152227.02	35.637	141.548	35	5.7	---	PDE-Q
2011	0311152600.17	37.319	142.284	20	5.4	---	PDE-Q
2011	0311152802.37	35.942	141.763	35	4.9	---	PDE-Q
2011	0311153042.23	37.625	144.513	17	5.1	---	PDE-Q
2011	0311153233.72	37.216	142.233	25	5.4	---	PDE-Q
2011	0311153615.88	38.907	142.722	25	5.2	---	PDE-Q
2011	0311153833.82	38.790	142.756	35	4.7	---	PDE-Q
2011	0311153856.62	35.594	140.933	53	5.2	---	PDE-Q
2011	0311153949.36	36.469	141.824	31	5.2	---	PDE-Q
2011	0311154058.20	38.437	143.605	35	4.7	---	PDE-Q
2011	0311154205.09	36.066	141.515	16	5.6	---	PDE-Q
2011	0311154601.81	36.022	141.958	20	5.3	---	PDE-Q
2011	0311154845.34	36.233	142.555	15	5.2	---	PDE-Q
2011	0311155059.24	37.409	142.217	25	5.3	---	PDE-Q
2011	0311155144.27	38.699	142.991	35	5.3	---	PDE-Q
2011	0311155522.79	36.626	142.162	25	5.2	---	PDE-Q
2011	0311155657.50	36.339	141.988	35	5.2	---	PDE-Q
2011	0311160037.26	38.470	143.716	20	5.0	---	PDE-Q
2011	0311160201.30	36.575	144.069	35	5.6	---	PDE-Q
2011	0311160452.88	39.236	144.320	26	5.4	---	PDE-Q
2011	0311160832.25	37.257	144.209	35	5.1	---	PDE-Q
2011	0311161126.34	39.458	143.469	8	5.6	---	PDE-Q
2011	0311161800.61	37.636	144.160	33	5.1	---	PDE-Q
2011	0311162051.72	36.157	141.877	25	5.2	---	PDE-Q
2011	0311162507.73	37.031	143.595	21	5.1	---	PDE-Q
2011	0311162654.86	38.015	144.586	36	5.0	---	PDE-Q
2011	0311162943.01	36.373	141.161	46	5.1	---	PDE-Q
2011	0311163107.15	38.797	142.842	35	4.9	---	PDE-Q
2011	0311163259.33	36.969	143.978	18	5.1	---	PDE-Q
2011	0311163421.50	39.376	143.405	41	5.3	---	PDE-Q
2011	0311163659.65	36.557	142.303	35	5.3	---	PDE-Q
2011	0311164045.73	36.162	142.087	35	4.5	---	PDE-Q
2011	0311164222.59	38.384	142.862	42	5.0	---	PDE-Q
2011	0311164504.69	37.685	144.286	35	5.1	---	PDE-Q

2011	0311164720.07	37.606	143.876	35	5.1	---	PDE-Q
2011	0311164915.72	35.997	141.242	20	5.1	---	PDE-Q
2011	0311165301.80	36.407	141.893	35	5.0	---	PDE-Q
2011	0311165339.96	38.867	144.742	35	5.2	---	PDE-Q
2011	0311165552.54	37.779	143.171	25	5.3	---	PDE-Q
2011	0311165644.26	38.181	142.330	35	5.1	---	PDE-Q
2011	0311165955.69	38.113	144.297	35	5.3	---	PDE-Q
2011	0311170401.11	36.697	141.858	69	4.7	---	PDE-Q
2011	0311170505.76	36.635	142.042	7	4.9	---	PDE-Q
2011	0311170807.26	36.589	140.867	59	4.9	---	PDE-Q
2011	0311170838.52	35.988	143.648	10	4.7	---	PDE-Q
2011	0311171114.95	38.501	144.300	18	5.3	---	PDE-Q
2011	0311171137.81	38.390	143.035	27	5.1	---	PDE-Q
2011	0311171237.51	37.472	144.091	10	5.3	---	PDE-Q
2011	0311171459.86	38.902	142.375	68	5.1	---	PDE-Q
2011	0311171656.20	36.999	144.159	9	5.8	---	PDE-Q
2011	0311171726.27	35.327	141.461	17	5.7	---	PDE-Q
2011	0311172052.98	37.674	143.460	21	5.4	---	PDE-Q
2011	0311172255.00	36.544	142.360	27	5.4	---	PDE-Q
2011	0311172355.96	35.996	141.782	20	5.3	---	PDE-Q
2011	0311173021.37	37.611	140.688	72	5.3	---	PDE-Q
2011	0311173214.65	37.068	144.643	36	5.5	---	PDE-Q
2011	0311173420.82	37.329	142.706	44	5.4	---	PDE-Q
2011	0311173518.10	36.807	142.580	37	5.2	---	PDE-Q
2011	0311173728.11	36.653	142.415	19	5.1	---	PDE-Q
2011	0311173804.01	39.742	143.423	50	5.4	---	PDE-Q
2011	0311173816.36	34.999	143.454	35	5.2	---	PDE-Q
2011	0311174126.76	37.425	142.714	47	5.2	---	PDE-Q
2011	0311174344.17	36.722	144.175	18	5.0	---	PDE-Q
2011	0311174625.87	37.766	142.753	36	4.9	---	PDE-Q
2011	0311174716.38	37.545	143.593	35	5.1	---	PDE-Q
2011	0311175001.49	37.648	144.991	26	5.3	---	PDE-Q
2011	0311175122.70	36.765	142.056	49	5.3	---	PDE-Q
2011	0311175645.68	37.489	141.304	19	4.9	---	PDE-Q
2011	0311175737.20	36.425	142.540	41	4.9	---	PDE-Q
2011	0311180152.90	35.949	141.023	74	4.7	---	PDE-Q
2011	0311180234.55	36.673	142.329	24	5.0	---	PDE-Q
2011	0311180443.16	37.148	144.646	5	4.9	---	PDE-Q
2011	0311180509.42	38.604	143.385	35	5.0	---	PDE-Q
2011	0311180824.53	36.567	142.031	10	4.8	---	PDE-Q
2011	0311180934.03	37.187	143.044	59	4.9	---	PDE-Q

2011	0311181021.56	38.053	143.952	15	5.0	---	PDE-Q
2011	0311181124.42	37.118	142.160	14	5.8	---	PDE-Q
2011	0311181341.87	36.453	142.205	35	5.4	---	PDE-Q
2011	0311181647.95	36.418	142.436	35	4.8	---	PDE-Q
2011	0311181705.59	36.218	141.685	25	5.9	---	PDE-Q
2011	0311182024.34	35.784	142.010	35	5.2	---	PDE-Q
2011	0311182429.66	37.710	142.690	35	4.8	---	PDE-Q
2011	0311182627.94	38.575	144.859	10	4.9	---	PDE-Q
2011	0311182842.79	36.324	141.658	37	4.9	---	PDE-Q
2011	0311183011.88	37.192	143.103	38	5.1	---	PDE-Q
2011	0311183323.64	36.966	144.284	35	5.1	---	PDE-Q
2011	0311183413.78	37.028	144.707	10	5.1	---	PDE-Q
2011	0311183855.14	39.384	142.807	10	4.8	---	PDE-Q
2011	0311183933.86	37.916	143.055	2	5.1	---	PDE-Q
2011	0311184302.93	39.188	143.255	38	5.3	---	PDE-Q
2011	0311184406.05	36.858	141.029	26	5.3	---	PDE-Q
2011	0311184526.51	36.129	141.241	16	5.4	---	PDE-Q
2011	0311184814.90	35.978	141.850	35	4.9	---	PDE-Q
2011	0311185143.00	36.684	142.627	35	4.7	---	PDE-Q
2011	0311185352.37	38.343	140.654	10	4.8	---	PDE-Q
2011	0311185514.81	35.814	141.657	25	5.3	---	PDE-Q
2011	0311185816.32	36.128	141.794	31	4.9	---	PDE-Q
2011	0311190258.95	39.323	142.870	25	6.0	---	PDE-Q
2011	0311190838.73	36.264	140.884	9	5.7	---	PDE-Q
2011	0311191052.32	38.163	144.015	35	5.3	---	PDE-Q
2011	0311191232.50	36.839	143.759	35	4.9	---	PDE-Q
2011	0311191833.33	38.759	144.379	27	4.8	---	PDE-Q
2011	0311192049.68	36.815	142.328	36	4.8	---	PDE-Q
2011	0311192134.40	38.537	143.743	35	4.9	---	PDE-Q
2011	0311192211.44	37.008	144.353	35	5.0	---	PDE-Q
2011	0311192326.80	37.726	141.824	10	4.7	---	PDE-Q
2011	0311192428.54	35.770	140.639	25	5.7	---	PDE-Q
2011	0311193008.98	37.059	142.983	10	5.3	---	PDE-Q
2011	0311193028.51	35.923	141.902	35	5.1	---	PDE-Q
2011	0311193511.84	38.579	143.213	35	5.0	---	PDE-Q
2011	0311193933.30	39.347	143.199	35	5.0	---	PDE-Q
2011	0311193959.92	39.385	143.205	39	5.0	---	PDE-Q
2011	0311194011.64	37.436	143.558	35	5.3	---	PDE-Q
2011	0311194326.18	35.957	141.733	10	4.9	---	PDE-Q
2011	0311194524.35	37.653	141.548	25	5.4	---	PDE-Q
2011	0311195246.17	35.981	141.286	4	5.2	---	PDE-Q

2011	0311195601.70	38.895	144.356	7	5.3	---	PDE-Q
2011	0311195852.09	36.185	141.001	55	5.2	---	PDE-Q
2011	0311200134.24	37.992	143.984	35	5.1	---	PDE-Q
2011	0311200550.24	36.959	143.331	10	4.9	---	PDE-Q
2011	0311200659.60	38.747	142.453	20	4.8	---	PDE-Q
2011	0311200702.15	37.674	142.707	35	4.7	---	PDE-Q
2011	0311200946.86	35.177	143.334	35	4.8	---	PDE-Q
2011	0311201122.74	39.025	142.645	9	6.1	---	PDE-Q
2011	0311201518.22	38.385	144.859	10	5.3	---	PDE-Q
2011	0311201712.34	37.364	142.583	30	5.2	---	PDE-Q
2011	0311202242.41	38.561	141.896	63	5.0	---	PDE-Q
2011	0311202252.36	37.615	143.469	22	5.2	---	PDE-Q
2011	0311202343.77	35.818	141.583	24	5.8	---	PDE-Q
2011	0311202524.27	36.898	141.967	59	5.4	---	PDE-Q
2011	0311202616.73	37.678	143.340	6	5.6	---	PDE-Q
2011	0311203037.77	37.533	143.860	35	5.1	---	PDE-Q
2011	0311203327.26	37.694	143.004	37	4.9	---	PDE-Q
2011	0311203440.40	36.993	140.985	25	5.4	---	PDE-Q
2011	0311203610.27	37.838	142.847	25	5.7	---	PDE-Q
2011	0311204105.24	37.671	142.624	10	4.9	---	PDE-Q
2011	0311204124.47	37.675	143.698	25	5.4	---	PDE-Q
2011	0311204238.60	38.275	142.257	10	5.3	---	PDE-Q
2011	0311204339.39	38.279	142.363	35	5.2	---	PDE-Q
2011	0311204515.81	36.491	142.081	42	5.1	---	PDE-Q
2011	0311204609.02	39.135	142.568	43	5.2	---	PDE-Q
2011	0311204659.30	39.167	143.002	35	5.3	---	PDE-Q
2011	0311205007.01	37.199	142.613	36	5.0	---	PDE-Q
2011	0311205121.34	38.964	144.451	10	5.2	---	PDE-Q
2011	0311205409.10	38.992	142.960	11	4.9	---	PDE-Q
2011	0311205451.39	38.666	144.254	28	5.1	---	PDE-Q
2011	0311205846.44	38.553	143.260	10	5.2	---	PDE-Q
2011	0311210043.71	38.985	142.466	16	5.6	---	PDE-Q
2011	0311210335.01	37.829	142.911	39	5.3	---	PDE-Q
2011	0311210857.14	37.210	143.603	43	4.5	---	PDE-Q
2011	0311210915.97	37.189	143.383	35	4.8	---	PDE-Q
2011	0311210924.52	36.983	141.433	43	4.6	---	PDE-Q
2011	0311211029.54	38.611	144.724	35	4.6	---	PDE-Q
2011	0311211127.41	38.883	142.729	35	4.6	---	PDE-Q
2011	0311211358.45	36.656	142.285	47	4.5	---	PDE-Q
2011	0311211507.40	37.149	143.141	35	4.8	---	PDE-Q
2011	0311211623.41	35.671	140.901	21	4.6	---	PDE-Q

2011	0311212002.34	37.629	144.359	35	4.6	---	PDE-Q
2011	0311212140.58	39.457	142.616	68	4.6	---	PDE-Q
2011	0311212447.10	38.518	141.991	36	4.4	---	PDE-Q
2011	0311212930.73	39.128	142.299	49	4.7	---	PDE-Q
2011	0311213036.84	37.377	142.456	33	4.6	---	PDE-Q
2011	0311213116.44	38.974	142.666	35	4.7	---	PDE-Q
2011	0311213214.45	39.600	143.166	63	4.6	---	PDE-Q
2011	0311213425.19	37.401	141.236	37	5.2	---	PDE-Q
2011	0311213806.77	38.535	144.705	34	4.6	---	PDE-Q
2011	0311214200.94	37.271	142.275	34	5.5	---	PDE-Q
2011	0311214521.18	39.530	143.183	35	4.7	---	PDE-Q
2011	0311214543.35	39.282	143.293	40	4.6	---	PDE-Q
2011	0311214707.31	38.271	144.769	35	4.9	---	PDE-Q
2011	0311214726.39	38.912	144.668	22	4.8	---	PDE-Q
2011	0311214740.68	38.716	143.448	35	4.9	---	PDE-Q
2011	0311214842.22	35.756	140.841	22	4.6	---	PDE-Q
2011	0311215155.32	36.453	141.307	54	4.7	---	PDE-Q
2011	0311215439.33	36.676	141.076	55	4.8	---	PDE-Q
2011	0311215526.71	37.220	142.801	42	4.5	---	PDE-Q
2011	0311215633.86	37.812	143.783	16	4.7	---	PDE-Q
2011	0311215757.26	36.798	143.477	35	4.5	---	PDE-Q
2011	0311215904.76	39.020	144.538	35	4.6	---	PDE-Q
2011	0311215928.63	38.574	141.314	53	4.6	---	PDE-Q
2011	0311220130.84	37.789	143.044	35	4.6	---	PDE-Q
2011	0311220413.14	38.282	142.251	69	5.6	---	PDE-Q
2011	0311220645.22	37.382	143.379	35	4.6	---	PDE-Q
2011	0311220813.22	40.219	142.244	42	5.1	---	PDE-Q
2011	0311221157.88	40.786	143.655	14	4.9	---	PDE-Q
2011	0311221437.67	36.428	141.381	55	4.6	---	PDE-Q
2011	0311221502.56	36.949	142.276	49	4.6	---	PDE-Q
2011	0311221755.46	36.915	143.738	8	4.7	---	PDE-Q
2011	0311221839.21	36.634	141.641	40	5.3	---	PDE-Q
2011	0311221939.52	36.423	141.687	49	5.0	---	PDE-Q
2011	0311222233.47	39.211	142.864	11	5.2	---	PDE-Q
2011	0311222838.40	37.365	142.507	46	4.8	---	PDE-Q
2011	0311222943.76	38.410	142.637	34	4.9	---	PDE-Q
2011	0311223342.20	37.208	144.197	35	4.8	---	PDE-Q
2011	0311223608.52	35.807	141.136	7	5.2	---	PDE-Q
2011	0311223657.55	37.081	143.809	32	5.3	---	PDE-Q
2011	0311224019.17	38.247	144.599	35	4.5	---	PDE-Q
2011	0311224037.69	37.764	144.809	35	4.6	---	PDE-Q

2011	0311224155.03	37.501	143.518	35	4.5	---	PDE-Q
2011	0311224256.89	37.628	143.826	17	5.4	---	PDE-Q
2011	0311224642.33	39.554	142.775	46	4.6	---	PDE-Q
2011	0311224936.04	37.811	144.607	7	4.9	---	PDE-Q
2011	0311225011.66	36.813	143.944	35	4.5	---	PDE-Q
2011	0311225119.40	37.845	144.827	35	5.6	---	PDE-Q
2011	0311225426.46	36.492	142.301	14	5.5	---	PDE-Q
2011	0311225941.67	35.241	141.002	35	4.6	---	PDE-Q
2011	0311230514.16	39.654	141.867	66	5.2	---	PDE-Q
2011	0311230814.44	37.904	144.077	49	4.6	---	PDE-Q
2011	0311230938.63	38.173	142.477	35	4.5	---	PDE-Q
2011	0311230950.24	36.366	140.945	36	4.7	---	PDE-Q
2011	0311231156.79	37.266	140.907	45	4.9	---	PDE-Q
2011	0311231243.21	36.638	140.490	57	4.7	---	PDE-Q
2011	0311231407.74	36.728	143.382	24	4.8	---	PDE-Q
2011	0311231426.76	37.949	142.713	35	4.4	---	PDE-Q
2011	0311231556.94	36.724	140.443	43	4.7	---	PDE-Q
2011	0311231902.16	38.462	144.191	35	4.4	---	PDE-Q
2011	0311232119.84	39.135	143.273	12	5.2	---	PDE-Q
2011	0311232409.59	37.114	142.728	28	4.9	---	PDE-Q
2011	0311232614.88	38.399	143.354	5	4.9	---	PDE-Q
2011	0311232620.19	36.827	142.503	35	4.9	---	PDE-Q
2011	0311232627.83	37.638	143.741	43	4.9	---	PDE-Q
2011	0311232649.58	39.067	142.620	23	5.4	---	PDE-Q
2011	0311233153.18	39.027	143.006	28	5.0	---	PDE-Q
2011	0311233317.82	35.992	141.361	35	4.6	---	PDE-Q
2011	0311233531.91	37.538	142.664	35	4.8	---	PDE-Q
2011	0311233618.05	39.393	143.878	20	4.5	---	PDE-Q
2011	0311233742.26	37.881	142.573	35	4.7	---	PDE-Q
2011	0311234011.70	37.092	143.509	25	5.3	---	PDE-Q
2011	0311234404.73	36.997	143.786	36	4.6	---	PDE-Q
2011	0311234435.80	39.718	143.394	34	4.6	---	PDE-Q
2011	0311234757.98	37.228	143.865	35	4.4	---	PDE-Q
2011	0311235011.52	38.216	141.654	59	4.8	---	PDE-Q
2011	0311235054.28	37.711	143.846	29	4.8	---	PDE-Q
2011	0311235212.79	39.614	143.150	43	4.7	---	PDE-Q
2011	0311235247.22	37.580	144.384	23	5.0	---	PDE-Q
2011	0311235329.26	38.857	142.532	29	5.4	---	PDE-Q
2011	0311235408.41	37.253	144.288	35	4.8	---	PDE-Q
2011	0311235445.45	37.439	141.823	36	5.0	---	PDE-Q
2011	0311235625.67	37.728	143.012	21	5.0	---	PDE-Q

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2011	0312000408.28	35.886	142.016	45	4.6	---	PDE-Q
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2011	0312000753.14	37.120	142.774	35	4.8	---	PDE-Q
2011	0312000931.51	39.534	143.377	35	4.6	---	PDE-Q
2011	0312001022.26	39.069	142.430	48	4.6	---	PDE-Q
2011	0312001605.72	37.876	142.525	34	4.6	---	PDE-Q
2011	0312001616.58	37.530	142.179	35	4.5	---	PDE-Q
2011	0312002124.57	36.590	143.610	23	5.3	---	PDE-Q
2011	0312002131.65	36.645	142.284	24	4.7	---	PDE-Q
2011	0312002336.77	36.064	141.891	35	4.5	---	PDE-Q
2011	0312002455.44	37.398	144.049	35	4.7	---	PDE-Q
2011	0312002507.87	37.763	141.864	31	5.3	---	PDE-Q
2011	0312002845.77	36.722	141.725	56	4.9	---	PDE-Q
2011	0312003056.54	38.821	144.200	35	4.4	---	PDE-Q
2011	0312003207.73	36.849	142.035	35	4.6	---	PDE-Q
2011	0312003606.61	39.490	142.836	35	4.6	---	PDE-Q
2011	0312003938.79	37.296	142.408	35	5.3	---	PDE-Q
2011	0312004032.75	38.328	142.274	13	5.1	---	PDE-Q
2011	0312004313.48	39.531	142.864	54	4.9	---	PDE-Q
2011	0312004427.64	38.240	144.390	35	4.7	---	PDE-Q
2011	0312004509.12	36.111	141.728	20	5.5	---	PDE-Q
2011	0312005121.80	38.088	144.319	35	4.5	---	PDE-Q
2011	0312005350.89	37.783	144.438	44	4.5	---	PDE-Q
2011	0312005508.54	37.965	142.658	46	4.5	---	PDE-Q
2011	0312005657.48	38.828	142.922	38	4.6	---	PDE-Q
2011	0312005726.70	35.891	141.918	11	4.7	---	PDE-Q
2011	0312005944.21	37.716	144.778	36	4.8	---	PDE-Q
2011	0312010234.12	35.606	141.074	21	5.0	---	PDE-Q
2011	0312010358.70	37.821	141.392	30	5.3	---	PDE-Q
2011	0312010747.67	36.878	141.400	23	4.8	---	PDE-Q
2011	0312011053.77	37.479	142.430	22	4.9	---	PDE-Q
2011	0312011214.03	37.074	140.555	38	5.1	---	PDE-Q
2011	0312011355.31	37.398	141.282	25	5.0	---	PDE-Q
2011	0312011700.68	38.053	142.677	21	5.5	---	PDE-Q
2011	0312012408.67	37.736	142.271	26	5.0	---	PDE-Q
2011	0312012504.26	36.425	141.605	28	5.3	---	PDE-Q
2011	0312012831.51	39.801	143.193	18	5.0	---	PDE-Q
2011	0312012920.99	36.976	143.586	35	4.9	---	PDE-Q
2011	0312013033.37	36.695	142.051	26	4.9	---	PDE-Q

2011	0312013339.06	38.124	142.870	12	4.9	---	PDE-Q
2011	0312013409.63	38.751	142.832	22	5.9	---	PDE-Q
2011	0312013529.93	39.160	142.941	34	5.5	---	PDE-Q
2011	0312013624.56	36.532	142.299	20	5.4	---	PDE-Q
2011	0312014239.10	39.241	143.625	8	5.0	---	PDE-Q
2011	0312014319.86	36.331	141.555	28	5.4	---	PDE-Q
2011	0312014609.33	37.263	144.374	35	4.9	---	PDE-Q
2011	0312014620.64	37.354	141.998	25	5.6	---	PDE-Q
2011	0312014715.40	37.594	142.648	20	6.5	---	PDE-Q
2011	0312015239.97	38.661	143.092	17	5.2	---	PDE-Q
2011	0312015618.73	36.641	142.005	30	5.0	---	PDE-Q
2011	0312015837.43	37.424	142.792	16	4.9	---	PDE-Q
2011	0312015855.13	36.242	141.625	29	4.9	---	PDE-Q
2011	0312015943.48	37.483	142.802	27	5.4	---	PDE-Q
2011	0312020455.00	36.740	141.512	25	5.0	---	PDE-Q
2011	0312020624.11	36.672	142.340	5	4.9	---	PDE-Q
2011	0312020718.99	37.814	143.183	10	5.2	---	PDE-Q
2011	0312021136.52	36.596	141.834	35	4.6	---	PDE-Q
2011	0312021351.12	37.569	143.738	25	5.2	---	PDE-Q
2011	0312021441.53	39.370	143.040	28	5.2	---	PDE-Q
2011	0312021733.35	37.699	144.032	9	5.1	---	PDE-Q
2011	0312022114.31	39.204	143.089	37	4.7	---	PDE-Q
2011	0312022157.83	37.280	143.748	11	4.9	---	PDE-Q
2011	0312022352.57	39.339	143.529	12	4.9	---	PDE-Q
2011	0312022501.89	36.631	141.875	17	4.8	---	PDE-Q
2011	0312022749.70	37.941	144.496	25	4.7	---	PDE-Q
2011	0312023002.82	38.486	142.064	46	4.9	---	PDE-Q
2011	0312023308.99	37.405	142.575	36	4.9	---	PDE-Q
2011	0312023405.03	36.667	141.431	27	5.4	---	PDE-Q
2011	0312023729.45	40.126	142.719	18	5.3	---	PDE-Q
2011	0312024310.11	39.099	142.304	25	5.3	---	PDE-Q
2011	0312024647.26	37.656	144.025	23	4.8	---	PDE-Q
2011	0312024734.58	37.604	143.610	21	5.9	---	PDE-Q
2011	0312025147.47	37.722	144.220	22	5.3	---	PDE-Q
2011	0312025236.97	37.205	141.020	36	5.2	---	PDE-Q
2011	0312025625.57	37.251	141.106	39	4.9	---	PDE-Q
2011	0312025712.27	37.585	143.645	26	4.9	---	PDE-Q
2011	0312025734.65	37.454	143.731	35	4.9	---	PDE-Q
2011	0312025918.95	37.656	144.402	27	5.2	---	PDE-Q
2011	0312030147.39	39.549	142.599	20	5.9	---	PDE-Q
2011	0312030625.26	39.128	142.825	33	5.2	---	PDE-Q

2011	0312030646.12	36.481	142.206	35	4.9	---	PDE-Q
2011	0312031051.50	39.684	143.915	35	4.8	---	PDE-Q
2011	0312031159.17	35.979	141.328	25	5.8	---	PDE-Q
2011	0312031627.06	39.006	143.236	24	4.9	---	PDE-Q
2011	0312031929.96	36.133	142.060	21	4.8	---	PDE-Q
2011	0312032018.80	35.959	142.078	12	4.8	---	PDE-Q
2011	0312032144.04	37.924	143.923	25	5.1	---	PDE-Q
2011	0312032442.64	36.163	142.106	37	5.2	---	PDE-Q
2011	0312032515.79	37.373	142.733	35	5.0	---	PDE-Q
2011	0312032846.95	36.016	142.109	18	4.9	---	PDE-Q
2011	0312032927.77	37.886	144.623	25	5.5	---	PDE-Q
2011	0312033446.14	35.275	141.019	25	5.5	---	PDE-Q
2011	0312033745.56	37.341	142.794	27	5.0	---	PDE-Q
2011	0312033830.99	36.514	144.309	20	4.9	---	PDE-Q
2011	0312034115.55	39.903	143.650	17	4.9	---	PDE-Q
2011	0312034624.10	38.544	143.176	35	4.8	---	PDE-Q
2011	0312034746.81	36.759	141.739	3	4.6	---	PDE-Q
2011	0312035017.43	37.370	142.633	36	4.9	---	PDE-Q
2011	0312035256.24	37.371	142.618	17	5.2	---	PDE-Q
2011	0312035444.75	35.790	141.227	9	5.3	---	PDE-Q
2011	0312035740.58	38.141	142.671	35	4.9	---	PDE-Q
2011	0312035904.57	38.136	144.813	19	4.9	---	PDE-Q
2011	0312040148.04	36.399	142.380	17	4.9	---	PDE-Q
2011	0312040406.10	36.483	142.419	27	4.9	---	PDE-Q
2011	0312040610.22	38.865	141.779	38	5.4	---	PDE-Q
2011	0312040932.25	36.562	144.310	27	5.1	---	PDE-Q
2011	0312042011.18	37.966	143.673	35	4.8	---	PDE-Q
2011	0312042118.94	37.668	143.926	18	5.0	---	PDE-Q
2011	0312042425.72	35.836	141.452	28	4.8	---	PDE-Q
2011	0312042857.41	36.609	141.922	39	4.8	---	PDE-Q
2011	0312043404.11	39.315	143.400	34	4.9	---	PDE-Q
2011	0312043557.35	36.347	141.762	25	4.8	---	PDE-Q
2011	0312043721.35	36.268	140.997	26	5.0	---	PDE-Q
2011	0312044300.73	35.878	141.379	11	5.2	---	PDE-Q
2011	0312044647.94	36.993	141.860	20	4.7	---	PDE-Q
2011	0312044718.84	35.905	141.340	31	5.4	---	PDE-Q
2011	0312045257.13	40.082	143.202	26	5.6	---	PDE-Q
2011	0312050132.74	38.028	142.508	39	5.1	---	PDE-Q
2011	0312050325.80	35.996	141.256	54	5.0	---	PDE-Q
2011	0312050517.02	37.134	144.467	13	4.9	---	PDE-Q
2011	0312051443.25	37.627	144.091	10	4.9	---	PDE-Q

2011	0312051453.62	36.818	140.348	50	5.2	---	PDE-Q
2011	0312052138.85	37.070	142.484	35	5.0	---	PDE-Q
2011	0312052431.28	35.097	140.968	11	4.9	---	PDE-Q
2011	0312052709.43	38.833	142.679	23	4.9	---	PDE-Q
2011	0312052837.81	38.933	144.250	55	4.6	---	PDE-Q
2011	0312052906.81	36.732	143.327	14	4.9	---	PDE-Q
2011	0312052939.29	37.806	142.414	35	4.5	---	PDE-Q
2011	0312053052.53	38.091	143.935	20	5.1	---	PDE-Q
2011	0312053143.21	38.383	142.303	35	4.9	---	PDE-Q
2011	0312053313.59	38.227	142.521	35	5.0	---	PDE-Q
2011	0312054005.14	36.159	141.783	13	5.1	---	PDE-Q
2011	0312054110.29	37.160	143.002	35	4.9	---	PDE-Q
2011	0312054245.30	37.933	144.330	22	4.7	---	PDE-Q
2011	0312054523.42	37.483	140.699	35	4.7	---	PDE-Q
2011	0312054702.99	37.532	144.585	49	4.8	---	PDE-Q
2011	0312055327.26	36.673	141.641	35	4.9	---	PDE-Q
2011	0312055621.28	39.550	144.559	35	4.8	---	PDE-Q
2011	0312055855.96	37.734	143.907	17	5.4	---	PDE-Q
2011	0312060025.42	36.415	141.714	30	5.4	---	PDE-Q
2011	0312060248.83	37.360	142.425	59	4.9	---	PDE-Q
2011	0312060445.73	36.859	144.171	35	4.7	---	PDE-Q
2011	0312060645.14	37.207	143.162	53	4.8	---	PDE-Q
2011	0312060856.95	36.236	141.909	35	4.9	---	PDE-Q
2011	0312061022.81	37.197	143.710	35	5.4	---	PDE-Q
2011	0312061043.00	38.590	143.750	0	5.6	---	PDE-Q
2011	0312061844.58	39.171	142.330	54	5.6	---	PDE-Q
2011	0312062316.67	39.524	142.769	52	5.1	---	PDE-Q
2011	0312062506.13	37.452	142.357	63	4.6	---	PDE-Q
2011	0312062756.53	35.967	141.897	30	4.9	---	PDE-Q
2011	0312062912.40	39.197	142.320	58	5.1	---	PDE-Q
2011	0312063335.37	37.951	143.128	32	4.8	---	PDE-Q
2011	0312063559.96	39.597	143.452	28	5.3	---	PDE-Q
2011	0312063924.17	37.568	142.821	31	5.2	---	PDE-Q
2011	0312064042.79	37.800	144.833	35	5.0	---	PDE-Q
2011	0312064051.53	37.786	144.976	15	5.2	---	PDE-Q
2011	0312064400.64	36.613	140.766	31	5.0	---	PDE-Q
2011	0312064912.24	38.693	142.550	26	5.1	---	PDE-Q
2011	0312065350.14	37.951	144.556	21	4.9	---	PDE-Q
2011	0312065540.14	37.147	144.245	41	4.9	---	PDE-Q
2011	0312065724.67	37.696	143.928	15	5.0	---	PDE-Q
2011	0312065954.54	36.486	142.365	32	4.9	---	PDE-Q

2011	0312070221.47	36.911	143.448	36	5.0	---	PDE-Q
2011	0312070418.42	36.321	141.699	35	4.9	---	PDE-Q
2011	0312070732.98	38.351	142.124	42	5.2	---	PDE-Q
2011	0312071217.11	38.042	142.908	41	5.0	---	PDE-Q
2011	0312071321.87	37.226	142.490	35	4.9	---	PDE-Q
2011	0312071337.48	37.424	142.007	47	5.3	---	PDE-Q
2011	0312071626.24	35.715	141.248	45	5.0	---	PDE-Q
2011	0312071745.58	37.212	143.540	19	5.1	---	PDE-Q
2011	0312071854.98	39.002	144.676	29	5.4	---	PDE-Q
2011	0312072058.85	35.964	141.333	24	5.2	---	PDE-Q
2011	0312072221.96	37.328	143.890	14	5.1	---	PDE-Q
2011	0312072353.82	38.574	144.813	11	5.2	---	PDE-Q
2011	0312072457.03	37.178	143.488	30	5.2	---	PDE-Q
2011	0312072746.51	37.210	144.225	50	4.9	---	PDE-Q
2011	0312072943.67	39.619	143.814	42	4.9	---	PDE-Q
2011	0312073019.79	35.851	141.337	49	4.9	---	PDE-Q
2011	0312073206.24	38.675	144.461	38	5.0	---	PDE-Q
2011	0312073539.26	37.380	142.575	38	5.3	---	PDE-Q
2011	0312073658.94	36.888	141.563	54	5.4	---	PDE-Q
2011	0312073804.89	38.696	144.348	27	5.2	---	PDE-Q
2011	0312074203.85	38.731	144.310	14	5.1	---	PDE-Q
2011	0312074637.35	37.798	143.710	1	5.0	---	PDE-Q
2011	0312075112.46	39.235	143.789	42	5.0	---	PDE-Q
2011	0312075346.90	37.706	141.807	35	4.8	---	PDE-Q
2011	0312075410.31	35.941	141.425	45	5.4	---	PDE-Q
2011	0312075642.54	37.935	143.556	31	5.2	---	PDE-Q
2011	0312075801.06	39.031	142.629	35	4.5	---	PDE-Q
2011	0312080257.51	37.598	144.541	35	4.5	---	PDE-Q
2011	0312080354.54	37.798	143.118	35	4.8	---	PDE-Q
2011	0312080420.40	37.260	143.808	50	4.8	---	PDE-Q
2011	0312080728.75	36.235	142.193	35	4.8	---	PDE-Q
2011	0312081005.64	37.215	141.700	35	4.6	---	PDE-Q
2011	0312081121.20	37.027	142.394	36	4.9	---	PDE-Q
2011	0312081231.37	35.286	141.353	35	4.6	---	PDE-Q
2011	0312081343.07	39.314	142.939	42	5.1	---	PDE-Q
2011	0312081619.01	37.827	142.946	47	5.0	---	PDE-Q
2011	0312081929.96	37.864	143.128	26	4.9	---	PDE-Q
2011	0312082208.24	36.250	141.671	39	4.9	---	PDE-Q
2011	0312082359.88	37.641	142.372	50	4.9	---	PDE-Q
2011	0312083023.66	38.198	142.704	48	5.2	---	PDE-Q
2011	0312083805.41	38.443	141.682	45	5.1	---	PDE-Q

2011	0312084210.69	35.614	141.592	21	5.2	---	PDE-Q
2011	0312084330.52	39.979	142.898	43	5.0	---	PDE-Q
2011	0312084455.42	39.327	142.718	53	5.2	---	PDE-Q
2011	0312084730.71	36.345	141.818	20	5.0	---	PDE-Q
2011	0312084751.95	36.659	141.008	35	4.9	---	PDE-Q
2011	0312085247.84	37.178	143.624	23	5.3	---	PDE-Q
2011	0312085543.34	36.141	141.922	16	5.0	---	PDE-Q
2011	0312085824.17	37.100	143.532	34	4.9	---	PDE-Q
2011	0312090001.98	37.322	143.540	40	5.4	---	PDE-Q
2011	0312090250.33	39.666	142.618	25	4.9	---	PDE-Q
2011	0312090531.78	38.271	144.316	29	5.0	---	PDE-Q
2011	0312091025.09	36.853	144.171	25	4.9	---	PDE-Q
2011	0312091207.27	37.567	143.610	25	4.8	---	PDE-Q
2011	0312091315.14	39.929	143.577	27	5.0	---	PDE-Q
2011	0312091457.49	38.178	143.953	25	4.9	---	PDE-Q
2011	0312091719.60	37.748	144.161	25	4.9	---	PDE-Q
2011	0312091855.82	37.099	143.439	25	5.2	---	PDE-Q
2011	0312092207.29	36.515	142.225	31	4.9	---	PDE-Q
2011	0312092713.95	37.413	143.672	39	5.3	---	PDE-Q
2011	0312093041.76	37.397	143.783	25	4.9	---	PDE-Q
2011	0312093237.19	37.306	143.805	35	4.4	---	PDE-Q
2011	0312093318.84	37.023	143.575	18	4.7	---	PDE-Q
2011	0312093502.53	35.428	141.084	31	4.7	---	PDE-Q
2011	0312093738.78	38.486	142.753	35	4.9	---	PDE-Q
2011	0312093855.96	40.186	143.014	35	4.8	---	PDE-Q
2011	0312094015.09	38.971	142.434	53	5.1	---	PDE-Q
2011	0312094044.56	38.857	142.811	33	5.4	---	PDE-Q
2011	0312094759.88	38.208	142.252	40	5.1	---	PDE-Q
2011	0312095505.66	37.230	141.249	70	4.8	---	PDE-Q
2011	0312100026.07	35.967	141.780	26	5.3	---	PDE-Q
2011	0312100610.97	37.212	143.471	19	5.2	---	PDE-Q
2011	0312101241.70	36.887	142.437	35	4.7	---	PDE-Q
2011	0312101549.14	37.112	142.482	35	4.8	---	PDE-Q
2011	0312101729.86	37.897	142.725	35	4.8	---	PDE-Q
2011	0312101956.41	37.212	143.746	18	4.9	---	PDE-Q
2011	0312102021.18	37.150	143.468	22	5.3	---	PDE-Q
2011	0312102908.20	37.265	143.290	25	4.9	---	PDE-Q
2011	0312103003.08	37.172	143.492	25	4.7	---	PDE-Q
2011	0312103449.29	37.846	144.377	25	5.4	---	PDE-Q
2011	0312103911.11	36.695	141.780	25	5.3	---	PDE-Q
2011	0312104031.69	35.721	141.783	25	4.9	---	PDE-Q

2011	0312104218.48	39.728	143.068	39	4.9	---	PDE-Q
2011	0312104925.97	37.607	143.169	35	5.0	---	PDE-Q
2011	0312105159.68	37.341	143.895	20	4.8	---	PDE-Q
2011	0312105330.87	39.075	142.352	25	5.7	---	PDE-Q
2011	0312105818.67	37.303	143.282	35	4.9	---	PDE-Q
2011	0312110459.70	37.913	143.740	25	5.2	---	PDE-Q
2011	0312110506.93	39.457	143.119	52	4.4	---	PDE-Q
2011	0312110919.25	37.186	143.684	35	4.9	---	PDE-Q
2011	0312111025.20	36.905	142.912	35	4.7	---	PDE-Q
2011	0312112016.40	38.723	142.439	26	5.2	---	PDE-Q
2011	0312113128.76	37.723	142.023	35	4.9	---	PDE-Q
2011	0312113801.26	38.233	143.278	44	4.9	---	PDE-Q
2011	0312113905.26	37.670	142.733	23	5.1	---	PDE-Q
2011	0312114458.46	36.510	143.560	35	4.8	---	PDE-Q
2011	0312114602.31	35.746	141.645	25	5.7	---	PDE-Q
2011	0312115256.09	37.357	143.264	13	4.9	---	PDE-Q
2011	0312115840.39	39.592	143.329	17	4.9	---	PDE-Q
2011	0312115927.28	38.691	144.399	38	5.1	---	PDE-Q
2011	0312120123.28	36.014	141.152	35	5.0	---	PDE-Q
2011	0312120408.81	37.367	141.293	46	4.6	---	PDE-Q
2011	0312120555.48	36.970	143.856	35	4.8	---	PDE-Q
2011	0312120621.59	37.114	142.671	37	4.8	---	PDE-Q
2011	0312120701.30	39.897	142.011	68	5.2	---	PDE-Q
2011	0312121226.76	37.232	141.990	39	4.9	---	PDE-Q
2011	0312121350.87	36.480	142.553	35	5.0	---	PDE-Q
2011	0312121533.55	39.785	142.571	48	5.2	---	PDE-Q
2011	0312121723.00	37.245	142.351	6	5.2	---	PDE-Q
2011	0312121754.08	36.646	143.656	35	5.0	---	PDE-Q
2011	0312121846.78	37.136	141.734	35	5.1	---	PDE-Q
2011	0312122259.80	36.967	144.586	35	4.7	---	PDE-Q
2011	0312122429.35	36.420	141.833	35	4.6	---	PDE-Q
2011	0312122717.85	39.731	144.464	30	5.2	---	PDE-Q
2011	0312123544.68	36.949	143.390	10	4.7	---	PDE-Q
2011	0312124308.78	36.572	143.681	35	5.1	---	PDE-Q
2011	0312125027.79	37.737	143.834	25	5.4	---	PDE-Q
2011	0312125155.87	39.177	143.228	30	4.9	---	PDE-Q
2011	0312125350.00	37.739	143.509	19	5.9	---	PDE-Q
2011	0312130115.82	37.455	143.742	35	4.4	---	PDE-Q
2011	0312130942.89	37.540	143.452	35	4.8	---	PDE-Q
2011	0312131429.76	35.748	140.868	45	5.1	---	PDE-Q
2011	0312131542.03	37.302	141.117	38	6.1	---	PDE-Q

2011	0312132353.22	36.204	141.935	28	5.4	---	PDE-Q
2011	0312132656.13	39.381	142.423	25	5.5	---	PDE-Q
2011	0312132927.68	38.563	143.253	35	4.6	---	PDE-Q
2011	0312132952.98	36.080	142.072	35	5.1	---	PDE-Q
2011	0312133018.75	37.722	143.519	35	5.2	---	PDE-Q
2011	0312133505.11	36.497	142.142	35	4.4	---	PDE-Q
2011	0312133629.35	37.381	143.531	35	4.7	---	PDE-Q
2011	0312134057.12	35.698	141.167	35	5.2	---	PDE-Q
2011	0312134902.96	35.286	140.998	35	4.9	---	PDE-Q
2011	0312135116.00	36.925	141.756	52	4.6	---	PDE-Q
2011	0312135330.89	36.887	142.338	44	4.9	---	PDE-Q
2011	0312135710.88	36.317	141.796	21	5.4	---	PDE-Q
2011	0312140330.70	38.798	142.508	29	5.6	---	PDE-Q
2011	0312140846.63	37.749	143.602	35	4.9	---	PDE-Q
2011	0312140859.18	37.665	143.363	35	4.6	---	PDE-Q
2011	0312141020.68	36.242	142.597	35	4.6	---	PDE-Q
2011	0312141454.91	35.779	140.608	19	5.2	---	PDE-Q
2011	0312141703.13	36.185	141.150	26	4.9	---	PDE-Q
2011	0312142154.04	39.387	142.688	49	4.9	---	PDE-Q
2011	0312142513.69	38.972	144.649	35	4.9	---	PDE-Q
2011	0312143037.72	40.005	144.299	35	4.4	---	PDE-Q
2011	0312143500.09	35.784	141.660	24	5.7	---	PDE-Q
2011	0312144309.01	39.486	142.338	19	5.8	---	PDE-Q
2011	0312145320.50	37.569	143.805	25	5.2	---	PDE-Q
2011	0312145640.70	39.386	142.198	35	5.1	---	PDE-Q
2011	0312150332.44	39.883	143.550	26	4.7	---	PDE-Q
2011	0312150918.36	38.175	143.891	41	4.5	---	PDE-Q
2011	0312151047.96	36.670	141.799	35	4.5	---	PDE-Q
2011	0312151355.92	37.689	142.807	35	5.0	---	PDE-Q
2011	0312151749.78	38.429	144.345	35	4.7	---	PDE-Q
2011	0312152433.36	38.303	142.272	35	4.5	---	PDE-Q
2011	0312152600.95	37.909	144.282	35	4.9	---	PDE-Q
2011	0312153427.04	39.383	144.726	35	4.9	---	PDE-Q
2011	0312153857.93	38.333	142.734	41	5.0	---	PDE-Q
2011	0312154319.67	37.237	142.547	35	4.7	---	PDE-Q
2011	0312154435.96	36.820	142.318	35	4.7	---	PDE-Q
2011	0312155241.84	36.976	142.747	35	4.4	---	PDE-Q
2011	0312155519.55	36.431	141.606	43	5.1	---	PDE-Q
2011	0312155832.10	38.055	142.969	17	4.9	---	PDE-Q
2011	0312160356.12	37.259	142.116	25	5.1	---	PDE-Q
2011	0312160738.96	39.076	142.684	37	5.0	---	PDE-Q

2011	0312161201.63	37.567	143.683	35	4.7	---	PDE-Q
2011	0312161345.99	35.614	140.836	35	4.5	---	PDE-Q
2011	0312161415.20	38.977	143.749	35	4.9	---	PDE-Q
2011	0312161904.94	38.426	143.939	25	5.0	---	PDE-Q
2011	0312162214.21	38.024	144.708	30	5.3	---	PDE-Q
2011	0312163345.57	38.950	143.938	35	4.8	---	PDE-Q
2011	0312163638.48	38.122	143.879	8	5.2	---	PDE-Q
2011	0312163844.70	38.067	144.066	25	5.2	---	PDE-Q
2011	0312164446.80	37.603	143.810	35	4.6	---	PDE-Q
2011	0312164812.70	37.719	141.932	23	5.0	---	PDE-Q
2011	0312164914.03	37.619	143.599	35	4.8	---	PDE-Q
2011	0312165541.20	38.102	143.701	25	5.1	---	PDE-Q
2011	0312165919.07	37.384	141.617	35	4.3	---	PDE-Q
2011	0312170118.21	37.711	143.335	10	5.4	---	PDE-Q
2011	0312170431.56	38.655	142.206	47	5.1	---	PDE-Q
2011	0312170623.12	37.987	143.976	35	4.9	---	PDE-Q
2011	0312170847.53	37.000	142.877	35	4.9	---	PDE-Q
2011	0312171032.56	38.028	142.793	28	5.0	---	PDE-Q
2011	0312171109.38	38.051	144.071	29	5.4	---	PDE-Q
2011	0312171623.66	37.694	143.484	24	4.9	---	PDE-Q
2011	0312171926.25	36.531	142.527	24	5.7	---	PDE-Q
2011	0312172402.92	37.328	143.393	35	4.8	---	PDE-Q
2011	0312173521.63	36.471	141.221	27	4.8	---	PDE-Q
2011	0312173832.55	39.044	144.745	28	4.9	---	PDE-Q
2011	0312174057.45	38.694	142.478	34	5.0	---	PDE-Q
2011	0312174332.36	36.313	142.154	35	5.1	---	PDE-Q
2011	0312174706.80	37.424	143.720	35	4.9	---	PDE-Q
2011	0312174811.97	37.290	143.466	18	5.1	---	PDE-Q
2011	0312175127.29	38.003	143.881	25	5.1	---	PDE-Q
2011	0312175557.46	37.755	143.296	35	4.9	---	PDE-Q
2011	0312175959.40	37.609	143.660	35	5.0	---	PDE-Q
2011	0312180914.88	37.321	141.367	25	4.9	---	PDE-Q
2011	0312181424.19	36.558	141.183	35	4.9	---	PDE-Q
2011	0312181438.09	38.532	144.793	19	4.9	---	PDE-Q
2011	0312181710.79	35.407	141.200	10	4.7	---	PDE-Q
2011	0312183423.12	37.429	144.171	35	4.9	---	PDE-Q
2011	0312183612.71	39.342	144.750	35	4.5	---	PDE-Q
2011	0312183838.31	37.715	143.368	32	5.1	---	PDE-Q
2011	0312184522.89	38.523	144.845	18	4.8	---	PDE-Q
2011	0312185139.37	36.579	141.592	44	4.9	---	PDE-Q
2011	0312185410.81	36.570	141.683	58	4.8	---	PDE-Q

2011	0312185819.32	38.773	142.924	41	4.8	---	PDE-Q
2011	0312190103.37	36.760	142.129	12	5.0	---	PDE-Q
2011	0312190854.07	37.670	143.439	37	4.8	---	PDE-Q
2011	0312191159.42	37.724	142.543	20	5.4	---	PDE-Q
2011	0312191703.10	39.879	142.443	89	5.0	---	PDE-Q
2011	0312192246.95	37.296	142.174	26	5.2	---	PDE-Q
2011	0312192745.23	36.132	141.865	10	4.9	---	PDE-Q
2011	0312193248.07	37.114	142.827	35	5.1	---	PDE-Q
2011	0312193547.75	36.042	141.927	10	4.8	---	PDE-Q
2011	0312193807.71	35.906	141.408	26	5.1	---	PDE-Q
2011	0312194346.52	38.235	143.153	22	5.0	---	PDE-Q
2011	0312194852.18	37.883	144.431	35	4.7	---	PDE-Q
2011	0312195527.64	37.400	142.384	25	4.9	---	PDE-Q
2011	0312195900.10	38.051	142.828	15	5.1	---	PDE-Q
2011	0312200003.23	39.360	143.555	35	4.9	---	PDE-Q
2011	0312200825.37	35.775	141.893	25	5.3	---	PDE-Q
2011	0312200955.09	36.747	144.050	24	5.4	---	PDE-Q
2011	0312201355.26	38.166	143.878	10	5.0	---	PDE-Q
2011	0312201432.08	38.892	144.751	4	5.3	---	PDE-Q
2011	0312201943.37	39.023	144.732	35	4.8	---	PDE-Q
2011	0312202139.36	37.930	142.348	35	4.9	---	PDE-Q
2011	0312202415.48	38.087	143.351	35	4.5	---	PDE-Q
2011	0312202451.99	36.474	142.542	10	4.6	---	PDE-Q
2011	0312202732.76	37.677	141.979	22	4.9	---	PDE-Q
2011	0312203507.50	36.262	142.065	36	4.8	---	PDE-Q
2011	0312203715.85	38.994	144.634	4	4.8	---	PDE-Q
2011	0312204128.92	37.190	141.244	55	5.2	---	PDE-Q
2011	0312204848.46	40.072	143.008	25	5.1	---	PDE-Q
2011	0312205001.81	39.875	143.352	56	5.0	---	PDE-Q
2011	0312205359.59	36.704	141.858	10	4.6	---	PDE-Q
2011	0312205618.77	38.304	141.883	66	4.7	---	PDE-Q
2011	0312205915.69	38.357	143.587	35	4.9	---	PDE-Q
2011	0312210111.22	37.239	141.916	23	4.9	---	PDE-Q
2011	0312210157.43	37.140	144.145	35	4.8	---	PDE-Q
2011	0312210233.50	37.239	141.483	7	4.8	---	PDE-Q
2011	0312210318.06	38.803	142.873	28	4.7	---	PDE-Q
2011	0312211301.65	37.009	144.444	35	4.6	---	PDE-Q
2011	0312211549.61	37.180	144.014	35	4.7	---	PDE-Q
2011	0312211835.73	39.041	144.481	35	4.6	---	PDE-Q
2011	0312212109.11	37.768	143.568	26	4.6	---	PDE-Q
2011	0312212150.09	36.285	142.344	13	4.8	---	PDE-Q

2011	0312212434.59	35.139	141.357	41	5.0	---	PDE-Q
2011	0312213419.96	39.743	143.441	56	4.5	---	PDE-Q
2011	0312213835.00	37.934	144.251	26	5.3	---	PDE-Q
2011	0312214057.86	37.170	143.354	25	5.3	---	PDE-Q
2011	0312214809.44	39.662	142.522	24	5.6	---	PDE-Q
2011	0312215457.18	37.781	143.634	35	4.6	---	PDE-Q
2011	0312215635.33	37.277	144.089	17	4.7	---	PDE-Q
2011	0312215816.67	39.055	142.319	26	5.6	---	PDE-Q
2011	0312220110.35	37.100	143.406	35	4.9	---	PDE-Q
2011	0312220516.54	37.697	143.860	25	5.1	---	PDE-Q
2011	0312220859.73	38.211	143.514	35	4.4	---	PDE-Q
2011	0312221018.04	39.000	142.534	55	4.9	---	PDE-Q
2011	0312221119.91	39.172	144.479	30	4.8	---	PDE-Q
2011	0312221246.63	37.665	141.954	16	5.9	---	PDE-Q
2011	0312221858.83	37.611	141.745	69	4.6	---	PDE-Q
2011	0312222038.10	37.039	143.357	35	4.5	---	PDE-Q
2011	0312222326.58	37.844	143.927	35	4.9	---	PDE-Q
2011	0312222543.39	36.460	142.675	26	4.8	---	PDE-Q
2011	0312222712.13	39.266	142.340	49	4.9	---	PDE-Q
2011	0312223000.47	37.497	143.786	35	4.4	---	PDE-Q
2011	0312223126.96	39.225	142.333	26	5.3	---	PDE-Q
2011	0312223407.01	39.173	142.788	35	4.5	---	PDE-Q
2011	0312223644.30	39.688	142.353	78	4.9	---	PDE-Q
2011	0312223756.26	36.602	143.033	43	4.7	---	PDE-Q
2011	0312224239.30	36.370	142.093	25	5.1	---	PDE-Q
2011	0312224432.44	36.082	141.062	49	4.5	---	PDE-Q
2011	0312224457.85	35.964	141.838	44	4.8	---	PDE-Q
2011	0312225001.52	36.011	141.253	35	4.5	---	PDE-Q
2011	0312225042.68	36.247	141.868	35	4.4	---	PDE-Q
2011	0312225058.20	36.160	141.811	40	4.9	---	PDE-Q
2011	0312225334.86	39.943	143.700	25	5.0	---	PDE-Q
2011	0312225850.27	37.235	142.257	35	4.5	---	PDE-Q
2011	0312225925.70	37.175	141.452	57	4.6	---	PDE-Q
2011	0312230313.72	38.820	144.749	33	4.5	---	PDE-Q
2011	0312230500.73	37.602	144.092	38	4.5	---	PDE-Q
2011	0312230900.53	37.822	144.249	36	4.4	---	PDE-Q
2011	0312231022.70	36.135	142.020	27	4.6	---	PDE-Q
2011	0312231212.56	39.032	142.424	55	4.7	---	PDE-Q
2011	0312231459.37	36.875	143.772	35	4.7	---	PDE-Q
2011	0312231712.99	38.538	144.232	14	5.1	---	PDE-Q
2011	0312232041.79	38.004	142.398	26	5.7	---	PDE-Q

2011	0312232409.97	35.408	140.952	52	4.6	---	PDE-Q
2011	0312232448.79	38.035	141.729	15	6.0	---	PDE-Q
2011	0312232925.08	38.802	144.633	22	4.5	---	PDE-Q
2011	0312233144.36	37.040	142.404	58	4.5	---	PDE-Q
2011	0312233342.66	37.523	141.848	35	4.6	---	PDE-Q
2011	0312233545.54	36.263	141.937	35	4.5	---	PDE-Q
2011	0312233723.70	36.758	142.323	25	5.4	---	PDE-Q
2011	0312234048.50	36.651	141.704	25	5.4	---	PDE-Q
2011	0312234329.10	39.653	142.789	35	4.5	---	PDE-Q
2011	0312234358.03	36.257	141.220	39	4.6	---	PDE-Q
2011	0312234408.44	35.721	141.649	35	4.5	---	PDE-Q
2011	0312234441.41	36.602	142.468	17	4.6	---	PDE-Q
2011	0312234657.77	36.454	142.233	25	4.8	---	PDE-Q
2011	0312234817.28	36.995	144.158	27	4.4	---	PDE-Q
2011	0312235014.49	35.884	141.444	38	4.9	---	PDE-Q
2011	0312235124.03	37.096	143.432	25	5.3	---	PDE-Q
2011	0312235345.00	37.668	143.378	25	5.2	---	PDE-Q
2011	0312235733.95	38.103	144.110	25	5.2	---	PDE-Q
2011	0312235847.77	37.680	142.774	35	4.9	---	PDE-Q
2011	0313000317.15	37.721	143.912	26	4.6	---	PDE-Q
2011	0313000324.87	37.565	143.723	5	4.7	---	PDE-Q
2011	0313000443.13	38.077	143.596	35	4.5	---	PDE-Q
2011	0313001049.06	39.639	144.461	35	4.6	---	PDE-Q
2011	0313001200.80	37.949	143.556	43	4.5	---	PDE-Q
2011	0313001305.24	36.912	142.212	51	4.4	---	PDE-Q
2011	0313001507.13	37.285	143.568	35	4.6	---	PDE-Q
2011	0313001547.97	36.624	141.759	25	5.1	---	PDE-Q
2011	0313002124.22	37.580	144.015	12	4.6	---	PDE-Q
2011	0313002605.82	35.154	141.267	40	4.6	---	PDE-Q
2011	0313002933.55	36.036	141.854	35	4.6	---	PDE-Q
2011	0313003141.67	37.095	142.989	35	4.7	---	PDE-Q
2011	0313003257.68	36.037	140.851	25	5.2	---	PDE-Q
2011	0313003553.45	36.656	144.400	35	4.6	---	PDE-Q
2011	0313004112.09	36.527	141.240	48	4.8	---	PDE-Q
2011	0313004224.63	37.527	144.036	16	4.8	---	PDE-Q
2011	0313004317.43	38.072	142.700	26	5.3	---	PDE-Q
2011	0313004704.80	39.102	143.312	25	5.5	---	PDE-Q
2011	0313005511.70	37.525	142.862	35	4.9	---	PDE-Q
2011	0313005800.95	39.052	144.607	35	4.8	---	PDE-Q
2011	0313010201.26	37.339	144.041	13	4.8	---	PDE-Q
2011	0313010841.83	36.434	142.132	25	5.1	---	PDE-Q

2011	0313011348.19	39.479	143.468	33	4.8	---	PDE-Q
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2011	0313011615.68	38.233	144.100	27	5.0	---	PDE-Q
2011	0313011803.66	37.234	142.114	18	4.7	---	PDE-Q
2011	0313012150.28	36.624	141.861	10	4.5	---	PDE-Q
2011	0313012430.90	36.824	142.188	12	4.9	---	PDE-Q
2011	0313012604.43	35.731	141.659	8	6.1	---	PDE-Q
2011	0313013129.05	37.511	143.840	22	5.4	---	PDE-Q
2011	0313013811.47	37.886	143.016	12	4.9	---	PDE-Q
2011	0313014254.18	36.945	142.903	25	5.2	---	PDE-Q
2011	0313014759.69	38.350	143.333	27	4.8	---	PDE-Q
2011	0313015237.47	37.637	141.960	30	4.9	---	PDE-Q
2011	0313015603.95	37.914	142.575	10	4.8	---	PDE-Q
2011	0313020308.16	38.505	144.339	25	4.7	---	PDE-Q
2011	0313020333.93	37.938	144.013	12	4.9	---	PDE-Q
2011	0313020848.46	37.066	143.896	35	4.7	---	PDE-Q
2011	0313020914.88	36.369	142.272	33	4.8	---	PDE-Q
2011	0313021211.90	36.497	143.677	9	4.8	---	PDE-Q
2011	0313021354.65	36.616	143.754	27	5.1	---	PDE-Q
2011	0313021638.76	36.723	144.107	19	4.8	---	PDE-Q
2011	0313021814.00	36.054	142.144	35	4.7	---	PDE-Q
2011	0313022155.34	35.587	141.829	30	4.9	---	PDE-Q
2011	0313022334.52	36.344	142.344	10	5.8	---	PDE-Q
2011	0313022527.93	36.231	141.853	31	5.0	---	PDE-Q
2011	0313023011.89	39.259	144.800	35	4.8	---	PDE-Q
2011	0313023236.37	36.716	141.593	27	5.2	---	PDE-Q
2011	0313023743.53	37.422	143.195	11	4.8	---	PDE-Q
2011	0313023923.48	37.016	142.905	15	5.2	---	PDE-Q
2011	0313024228.74	39.734	144.268	22	5.4	---	PDE-Q
2011	0313024818.25	36.853	142.614	16	5.4	---	PDE-Q
2011	0313025122.38	36.908	143.332	12	5.6	---	PDE-Q
2011	0313025124.43	36.891	143.354	25	4.6	---	PDE-Q
2011	0313025323.34	39.471	143.266	21	5.4	---	PDE-Q
2011	0313025529.77	37.262	143.259	36	4.9	---	PDE-Q
2011	0313025715.28	36.893	143.315	25	5.4	---	PDE-Q
2011	0313030058.74	36.089	142.261	35	4.9	---	PDE-Q
2011	0313030126.22	36.718	140.294	25	5.0	---	PDE-Q
2011	0313030546.55	36.147	141.640	35	4.4	---	PDE-Q
2011	0313030703.41	39.212	143.011	27	4.9	---	PDE-Q
2011	0313030743.27	37.026	142.628	8	5.2	---	PDE-Q
2011	0313030951.45	38.169	143.922	25	4.9	---	PDE-Q

2011	0313031832.58	37.724	142.647	10	4.7	---	PDE-Q
2011	0313032016.87	36.278	142.298	38	4.5	---	PDE-Q
2011	0313032237.13	35.624	141.730	20	4.9	---	PDE-Q
2011	0313032449.60	36.848	143.004	35	4.8	---	PDE-Q
2011	0313032536.50	36.015	141.728	22	4.8	---	PDE-Q
2011	0313033410.08	37.604	142.790	25	5.1	---	PDE-Q
2011	0313033657.65	38.089	144.542	20	4.9	---	PDE-Q
2011	0313034228.42	37.990	144.469	6	4.7	---	PDE-Q
2011	0313034542.95	38.053	142.563	25	5.2	---	PDE-Q
2011	0313034653.32	36.492	141.464	40	4.9	---	PDE-Q
2011	0313035013.33	39.650	143.587	18	4.9	---	PDE-Q
2011	0313035045.18	36.027	142.037	7	4.9	---	PDE-Q
2011	0313035443.29	38.673	144.785	25	5.2	---	PDE-Q
2011	0313035837.31	38.831	143.556	10	4.7	---	PDE-Q
2011	0313035917.08	38.850	143.155	22	4.9	---	PDE-Q
2011	0313040213.05	38.060	142.558	25	5.2	---	PDE-Q
2011	0313040555.68	36.181	142.296	27	4.9	---	PDE-Q
2011	0313040619.06	36.796	141.694	23	4.9	---	PDE-Q
2011	0313041255.59	35.702	141.761	25	5.3	---	PDE-Q
2011	0313042144.01	37.915	144.700	18	4.8	---	PDE-Q
2011	0313042224.41	37.522	141.965	25	4.7	---	PDE-Q
2011	0313042323.72	38.205	142.963	26	5.4	---	PDE-Q
2011	0313042605.17	39.706	143.167	17	5.0	---	PDE-Q
2011	0313043114.90	37.544	144.440	32	4.8	---	PDE-Q
2011	0313043137.35	36.911	144.500	35	4.7	---	PDE-Q
2011	0313043605.17	39.772	144.499	7	5.0	---	PDE-Q
2011	0313043614.45	35.261	140.960	28	5.3	---	PDE-Q
2011	0313044016.20	38.125	144.693	30	4.8	---	PDE-Q
2011	0313044029.02	36.254	142.172	25	5.4	---	PDE-Q
2011	0313044550.61	35.932	141.581	14	4.9	---	PDE-Q
2011	0313045405.02	36.822	142.147	34	4.6	---	PDE-Q
2011	0313050026.58	36.155	141.757	35	5.1	---	PDE-Q
2011	0313050831.39	38.606	144.012	25	4.9	---	PDE-Q
2011	0313050954.17	36.360	141.308	35	4.4	---	PDE-Q
2011	0313051108.23	36.918	142.893	35	5.0	---	PDE-Q
2011	0313051708.28	37.484	144.271	42	4.7	---	PDE-Q
2011	0313053141.69	39.269	144.798	26	4.7	---	PDE-Q
2011	0313053327.10	36.545	142.480	25	4.9	---	PDE-Q
2011	0313053647.27	38.914	142.101	67	4.9	---	PDE-Q
2011	0313053759.88	36.359	141.217	46	4.9	---	PDE-Q
2011	0313054249.63	37.290	142.022	30	4.9	---	PDE-Q

2011	0313054742.25	39.714	142.543	25	5.2	---	PDE-Q
2011	0313055053.92	37.452	142.243	25	5.1	---	PDE-Q
2011	0313055340.18	37.654	143.938	35	4.4	---	PDE-Q
2011	0313055506.53	38.384	142.095	25	5.2	---	PDE-Q
2011	0313055745.92	39.691	143.074	17	4.9	---	PDE-Q
2011	0313055953.47	37.072	141.410	26	5.2	---	PDE-Q
2011	0313060256.55	36.154	141.806	35	4.8	---	PDE-Q
2011	0313060922.28	38.230	144.216	35	4.8	---	PDE-Q
2011	0313061908.26	40.192	141.997	25	4.9	---	PDE-Q
2011	0313062413.68	39.171	143.043	47	4.9	---	PDE-Q
2011	0313062915.07	36.575	141.357	44	4.4	---	PDE-Q
2011	0313063749.79	37.803	143.419	25	5.3	---	PDE-Q
2011	0313064531.43	37.207	143.147	35	4.7	---	PDE-Q
2011	0313064727.28	36.210	141.419	11	4.9	---	PDE-Q
2011	0313065414.52	37.529	143.645	36	4.7	---	PDE-Q
2011	0313070045.35	38.814	144.194	12	4.6	---	PDE-Q
2011	0313070436.92	38.320	144.034	25	5.3	---	PDE-Q
2011	0313071733.67	36.946	143.671	35	4.9	---	PDE-Q
2011	0313072007.34	37.566	141.280	22	4.8	---	PDE-Q
2011	0313073723.75	37.040	143.175	25	4.9	---	PDE-Q
2011	0313073803.18	39.495	142.814	35	5.1	---	PDE-Q
2011	0313074038.33	37.391	144.303	35	4.6	---	PDE-Q
2011	0313074345.47	37.223	144.351	27	4.8	---	PDE-Q
2011	0313074522.15	39.865	143.549	11	4.9	---	PDE-Q
2011	0313075519.83	37.562	144.485	35	4.7	---	PDE-Q
2011	0313075643.38	39.645	143.177	18	5.8	---	PDE-Q
2011	0313081134.76	39.090	142.415	35	4.8	---	PDE-Q
2011	0313081221.48	39.117	142.928	35	4.9	---	PDE-Q
2011	0313081446.69	39.676	144.314	35	4.9	---	PDE-Q
2011	0313082459.12	37.325	144.009	35	4.8	---	PDE-Q
2011	0313082620.57	37.412	143.737	25	5.4	---	PDE-Q
2011	0313083522.10	37.079	142.185	35	4.6	---	PDE-Q
2011	0313084148.42	35.710	141.789	21	4.9	---	PDE-Q
2011	0313084323.51	37.173	142.442	25	5.3	---	PDE-Q
2011	0313084705.71	37.285	143.755	35	4.9	---	PDE-Q
2011	0313084937.90	37.893	143.948	25	5.3	---	PDE-Q
2011	0313085405.01	37.460	143.628	25	5.1	---	PDE-Q
2011	0313085817.23	38.520	143.497	10	4.9	---	PDE-Q
2011	0313090634.46	37.517	143.775	9	5.0	---	PDE-Q
2011	0313090716.33	38.479	143.966	38	4.9	---	PDE-Q
2011	0313090835.86	39.617	144.352	37	5.1	---	PDE-Q

2011	0313090845.95	39.674	144.378	35	4.7	---	PDE-Q
2011	0313091215.68	37.276	143.542	20	5.1	---	PDE-Q
2011	0313091224.54	37.306	143.478	2	4.9	---	PDE-Q
2011	0313091257.70	37.717	143.804	21	5.4	---	PDE-Q
2011	0313091719.15	37.604	143.754	35	4.9	---	PDE-Q
2011	0313092037.16	37.684	144.102	22	5.1	---	PDE-Q
2011	0313092246.54	39.696	144.437	14	5.1	---	PDE-Q
2011	0313092358.89	38.598	144.256	52	4.7	---	PDE-Q
2011	0313092452.88	37.929	144.561	35	4.9	---	PDE-Q
2011	0313092507.96	39.020	142.441	25	5.2	---	PDE-Q
2011	0313093153.57	37.218	142.078	27	4.8	---	PDE-Q
2011	0313093800.40	37.253	143.732	35	5.2	---	PDE-Q
2011	0313094021.08	37.286	142.457	38	4.9	---	PDE-Q
2011	0313094222.34	37.231	143.633	20	5.2	---	PDE-Q
2011	0313094542.93	36.532	141.781	35	5.0	---	PDE-Q
2011	0313094719.88	38.879	144.266	15	5.1	---	PDE-Q
2011	0313095231.09	38.855	141.870	32	5.6	---	PDE-Q
2011	0313100404.13	37.792	143.662	34	5.3	---	PDE-Q
2011	0313102919.04	36.617	142.974	7	5.1	---	PDE-Q
2011	0313103655.18	39.508	144.712	35	5.0	---	PDE-Q
2011	0313104311.26	38.194	141.631	65	5.1	---	PDE-Q
2011	0313104432.11	39.808	143.447	21	5.0	---	PDE-Q
2011	0313104930.41	36.581	141.522	45	5.0	---	PDE-Q
2011	0313105056.78	39.658	143.596	36	5.2	---	PDE-Q
2011	0313105446.38	36.936	142.699	47	5.0	---	PDE-Q
2011	0313105857.38	36.982	143.203	18	5.3	---	PDE-Q
2011	0313110118.93	39.739	144.411	12	5.4	---	PDE-Q
2011	0313110510.14	39.418	143.006	46	5.0	---	PDE-Q
2011	0313110755.23	36.190	141.038	51	5.1	---	PDE-Q
2011	0313110830.73	39.837	144.741	35	5.0	---	PDE-Q
2011	0313111158.41	37.398	142.153	5	5.0	---	PDE-Q
2011	0313111939.52	39.701	142.563	39	4.9	---	PDE-Q
2011	0313112732.59	38.714	141.941	50	5.0	---	PDE-Q
2011	0313112926.99	38.238	143.786	52	5.0	---	PDE-Q
2011	0313113731.78	37.348	142.416	25	5.8	---	PDE-Q
2011	0313114506.70	37.458	142.091	62	4.6	---	PDE-Q
2011	0313114759.03	37.348	142.460	36	5.2	---	PDE-Q
2011	0313115024.18	37.564	142.575	28	5.2	---	PDE-Q
2011	0313115626.03	35.904	141.375	28	5.0	---	PDE-Q
2011	0313120122.96	40.607	143.418	37	5.1	---	PDE-Q
2011	0313120252.65	37.385	142.450	29	5.1	---	PDE-Q

2011	0313121055.53	38.614	144.358	9	5.0	---	PDE-Q
2011	0313121155.85	37.357	142.574	39	4.9	---	PDE-Q
2011	0313121412.85	38.300	144.336	41	5.0	---	PDE-Q
2011	0313122418.02	38.802	144.844	26	5.0	---	PDE-Q
2011	0313122536.08	39.717	144.375	20	5.1	---	PDE-Q
2011	0313122719.82	36.839	141.016	38	5.1	---	PDE-Q
2011	0313123316.56	36.237	142.163	35	4.8	---	PDE-Q
2011	0313123337.68	38.390	141.971	35	5.1	---	PDE-Q
2011	0313123653.88	37.334	142.499	36	5.0	---	PDE-Q
2011	0313123943.33	39.346	144.685	35	5.0	---	PDE-Q
2011	0313124159.41	37.106	143.888	28	5.0	---	PDE-Q
2011	0313124234.32	37.484	144.062	42	5.2	---	PDE-Q
2011	0313124430.67	37.259	141.921	50	5.0	---	PDE-Q
2011	0313125149.77	37.613	144.050	24	4.9	---	PDE-Q
2011	0313125301.11	35.006	141.353	26	4.9	---	PDE-Q
2011	0313125332.06	34.995	141.162	16	5.1	---	PDE-Q
2011	0313125554.18	37.794	143.553	40	5.1	---	PDE-Q
2011	0313125625.00	37.763	143.634	35	5.0	---	PDE-Q
2011	0313125913.52	38.190	142.935	38	5.0	---	PDE-Q
2011	0313130106.17	37.072	143.767	35	4.9	---	PDE-Q
2011	0313130109.55	38.702	142.143	10	5.1	---	PDE-Q
2011	0313132357.55	35.817	141.598	11	5.2	---	PDE-Q
2011	0313133520.73	37.333	144.272	40	4.9	---	PDE-Q
2011	0313133601.21	37.930	143.977	35	5.0	---	PDE-Q
2011	0313133731.74	39.611	144.337	35	4.9	---	PDE-Q
2011	0313134136.00	36.592	141.855	38	4.9	---	PDE-Q
2011	0313134337.53	39.033	142.369	6	5.1	---	PDE-Q
2011	0313134929.26	37.828	142.279	42	4.7	---	PDE-Q
2011	0313135020.07	37.567	144.111	35	4.6	---	PDE-Q
2011	0313135125.81	39.122	144.806	1	4.7	---	PDE-Q
2011	0313140117.20	36.929	141.401	31	4.9	---	PDE-Q
2011	0313140213.87	39.063	142.972	35	4.9	---	PDE-Q
2011	0313140302.54	37.007	143.654	35	5.0	---	PDE-Q
2011	0313140426.86	37.283	141.640	59	4.9	---	PDE-Q
2011	0313141040.33	37.780	143.531	35	4.9	---	PDE-Q
2011	0313141428.52	37.704	141.962	13	5.0	---	PDE-Q
2011	0313141639.40	36.147	141.908	5	4.9	---	PDE-Q
2011	0313142806.00	38.872	144.591	25	4.8	---	PDE-Q
2011	0313142835.58	36.902	141.213	40	4.8	---	PDE-Q
2011	0313143157.14	39.167	142.729	27	5.3	---	PDE-Q
2011	0313144031.70	37.630	141.800	10	5.0	---	PDE-Q

2011	0313144123.00	38.620	142.720	33	5.4	---	MOS
2011	0313144411.98	38.976	142.400	12	4.9	---	PDE-Q
2011	0313144640.65	37.977	143.080	10	4.7	---	PDE-Q
2011	0313144746.18	37.437	142.439	35	4.8	---	PDE-Q
2011	0313144751.64	37.327	142.150	35	4.8	---	PDE-Q
2011	0313144801.27	37.766	142.785	17	5.6	---	PDE-Q
2011	0313145211.01	36.491	143.694	13	4.8	---	PDE-Q
2011	0313150848.64	36.902	144.471	21	5.4	---	PDE-Q
2011	0313151052.46	35.467	140.834	35	5.3	---	PDE-Q
2011	0313151159.67	37.801	142.811	35	5.1	---	PDE-Q
2011	0313151839.39	37.686	143.830	23	4.8	---	PDE-Q
2011	0313152555.49	39.572	142.587	35	4.5	---	PDE-Q
2011	0313152721.19	39.445	142.586	37	5.3	---	PDE-Q
2011	0313153858.68	38.220	143.599	20	4.8	---	PDE-Q
2011	0313154330.55	39.810	143.671	29	4.9	---	PDE-Q
2011	0313154412.67	37.574	144.229	35	5.0	---	PDE-Q
2011	0313154513.70	39.124	142.561	33	4.9	---	PDE-Q
2011	0313155620.63	38.686	143.268	23	4.8	---	PDE-Q
2011	0313160440.35	35.664	140.792	16	4.9	---	PDE-Q
2011	0313160718.95	36.120	143.456	15	4.8	---	PDE-Q
2011	0313161031.78	36.132	141.938	38	4.4	---	PDE-Q
2011	0313161602.42	39.439	142.765	30	5.1	---	PDE-Q
2011	0313163448.06	38.413	144.346	3	4.9	---	PDE-Q
2011	0313163945.83	37.212	143.637	5	4.9	---	PDE-Q
2011	0313164136.88	38.859	142.695	27	4.6	---	PDE-Q
2011	0313164453.56	38.851	142.937	10	5.0	---	PDE-Q
2011	0313164703.17	38.031	142.661	31	4.6	---	PDE-Q
2011	0313164758.96	39.504	143.619	40	4.8	---	PDE-Q
2011	0313165300.99	39.346	143.385	35	4.7	---	PDE-Q
2011	0313165721.78	37.665	142.844	39	4.9	---	PDE-Q
2011	0313170132.31	35.181	141.074	25	5.4	---	PDE-Q
2011	0313170401.43	37.645	143.597	35	5.4	---	PDE-Q
2011	0313170558.74	37.642	143.595	25	5.4	---	PDE-Q
2011	0313170736.67	36.967	143.830	35	4.9	---	PDE-Q
2011	0313171434.93	35.160	141.101	35	4.5	---	PDE-Q
2011	0313172019.68	37.949	143.015	35	5.1	---	PDE-Q
2011	0313172911.48	35.683	140.667	30	5.1	---	PDE-Q
2011	0313173343.82	36.352	143.593	35	4.4	---	PDE-Q
2011	0313174004.39	36.293	141.932	42	5.1	---	PDE-Q
2011	0313174030.90	37.930	142.579	25	5.4	---	PDE-Q
2011	0313174431.20	37.890	144.210	35	5.2	---	PDE-Q

2011	0313175006.25	36.036	141.629	25	5.0	---	PDE-Q
2011	0313175145.90	37.772	144.670	35	4.6	---	PDE-Q
2011	0313175341.69	37.198	142.375	38	4.6	---	PDE-Q
2011	0313175524.95	35.205	141.030	24	5.6	---	PDE-Q
2011	0313180321.18	36.200	141.151	35	4.9	---	PDE-Q
2011	0313184025.44	38.643	143.630	35	4.9	---	PDE-Q
2011	0313184515.45	38.239	142.201	35	5.1	---	PDE-Q
2011	0313184931.71	35.221	141.013	25	5.1	---	PDE-Q
2011	0313185600.34	36.029	141.802	25	5.1	---	PDE-Q
2011	0313185916.15	38.028	142.990	32	5.0	---	PDE-Q
2011	0313190715.46	37.832	143.983	36	4.9	---	PDE-Q
2011	0313191031.50	36.402	143.329	35	4.7	---	PDE-Q
2011	0313191641.46	35.948	140.880	25	5.2	---	PDE-Q
2011	0313192700.00	37.100	141.200	30	4.7	---	JMA
2011	0313193255.40	39.175	143.662	35	4.5	---	PDE-Q
2011	0313193447.24	37.088	142.349	35	5.1	---	PDE-Q
2011	0313193815.93	37.476	143.678	42	5.3	---	PDE-Q
2011	0313194125.72	35.632	140.914	35	4.4	---	PDE-Q
2011	0313194627.98	38.374	144.757	26	5.2	---	PDE-Q
2011	0313195236.87	37.651	143.183	35	4.5	---	PDE-Q
2011	0313195416.10	36.248	143.170	35	4.4	---	PDE-Q
2011	0313195757.23	38.046	142.762	35	4.8	---	PDE-Q
2011	0313195951.32	37.001	141.832	25	5.4	---	PDE-Q
2011	0313201341.73	37.403	142.147	44	5.1	---	PDE-Q
2011	0313202338.62	35.954	141.215	35	4.4	---	PDE-Q
2011	0313203058.91	37.549	143.803	35	4.5	---	PDE-Q
2011	0313203221.54	37.348	142.064	35	4.5	---	PDE-Q
2011	0313203517.34	38.294	143.740	25	5.1	---	PDE-Q
2011	0313204431.63	39.768	144.411	35	4.7	---	PDE-Q
2011	0313204724.07	39.591	143.518	35	4.7	---	PDE-Q
2011	0313205119.05	36.833	143.997	35	4.9	---	PDE-Q
2011	0313205140.49	36.736	143.809	35	4.6	---	PDE-Q
2011	0313205741.05	35.869	141.501	35	4.9	---	PDE-Q
2011	0313205841.57	37.865	144.241	35	5.1	---	PDE-Q
2011	0313210200.55	35.625	141.831	28	5.0	---	PDE-Q
2011	0313211339.00	37.584	142.052	34	5.0	---	PDE-Q
2011	0313211601.05	37.849	143.585	35	5.2	---	PDE-Q
2011	0313211722.93	38.172	142.213	21	4.1	---	PDE-Q
2011	0313212106.19	37.807	143.181	10	5.1	---	PDE-Q
2011	0313212720.45	38.558	144.314	35	5.0	---	PDE-Q
2011	0313213206.13	37.237	144.165	35	5.1	---	PDE-Q

2011	0313213745.77	35.650	142.034	37	4.9	---	PDE-Q
2011	0313214018.20	37.468	142.674	49	4.6	---	PDE-Q
2011	0313214632.70	39.754	144.547	24	4.8	---	PDE-Q
2011	0313214913.81	35.805	141.740	35	4.7	---	PDE-Q
2011	0313215257.90	38.995	142.305	38	4.9	---	PDE-Q
2011	0313215414.94	37.728	142.666	15	4.8	---	PDE-Q
2011	0313215702.70	35.893	141.425	20	4.6	---	PDE-Q
2011	0313220441.06	37.032	144.731	26	5.3	---	PDE-Q
2011	0313221633.08	36.282	140.768	35	4.9	---	PDE-Q
2011	0313222017.92	36.057	141.767	18	5.5	---	PDE-Q
2011	0313222358.27	39.768	143.317	27	5.0	---	PDE-Q
2011	0313222604.67	35.933	141.861	2	5.3	---	PDE-Q
2011	0313223559.87	39.016	142.400	35	4.6	---	PDE-Q
2011	0313223820.53	37.482	143.252	29	5.0	---	PDE-Q
2011	0313224214.61	37.732	142.110	35	4.4	---	PDE-Q
2011	0313224529.77	38.654	144.670	29	5.2	---	PDE-Q
2011	0313224935.97	36.297	142.359	11	5.0	---	PDE-Q
2011	0313225632.88	36.906	140.890	60	4.8	---	PDE-Q
2011	0313230620.01	39.785	142.433	60	4.8	---	PDE-Q
2011	0313231032.04	38.786	143.045	48	4.5	---	PDE-Q
2011	0313231544.69	38.994	142.687	41	4.5	---	PDE-Q
2011	0313231634.36	37.060	143.425	25	5.2	---	PDE-Q
2011	0313231648.22	37.018	143.401	42	4.8	---	PDE-Q
2011	0313232437.50	37.012	143.731	2	4.5	---	PDE-Q
2011	0313232449.85	37.068	143.705	10	4.8	---	PDE-Q
2011	0313232905.94	39.665	144.915	35	4.4	---	PDE-Q
2011	0313232938.66	37.632	144.509	3	4.8	---	PDE-Q
2011	0313233315.70	36.811	140.307	55	4.6	---	PDE-Q
2011	0313233517.34	36.125	141.781	42	4.7	---	PDE-Q
2011	0313233539.85	37.017	143.531	6	4.9	---	PDE-Q
2011	0313233806.01	36.285	141.827	36	4.4	---	PDE-Q
2011	0313234027.43	35.853	141.831	35	4.7	---	PDE-Q
2011	0313234127.70	36.824	140.700	26	5.0	---	PDE-Q
2011	0313234226.52	37.510	143.910	35	4.7	---	PDE-Q
2011	0313234906.66	37.053	142.149	35	4.4	---	PDE-Q
2011	0313235349.72	35.725	141.147	25	5.1	---	PDE-Q
2011	0313235828.51	37.392	143.869	12	4.6	---	PDE-Q
2011	0314000751.90	37.161	143.762	25	5.1	---	PDE-Q
2011	0314001334.14	40.269	144.518	25	5.1	---	PDE-Q
2011	0314001529.70	36.719	141.976	28	5.0	---	PDE-Q
2011	0314001950.24	36.545	142.781	14	4.6	---	PDE-Q

2011	0314002249.72	36.960	141.761	25	5.3	---	PDE-Q
2011	0314003235.20	37.550	144.163	35	4.8	---	PDE-Q
2011	0314004018.14	37.915	144.504	25	4.9	---	PDE-Q
2011	0314005406.86	35.591	141.030	28	4.6	---	PDE-Q
2011	0314005548.65	35.450	140.866	26	4.7	---	PDE-Q
2011	0314010105.74	36.684	142.111	47	4.9	---	PDE-Q
2011	0314010238.55	36.404	140.895	11	5.6	---	PDE-Q
2011	0314010445.88	34.752	141.127	31	5.0	---	PDE-Q
2011	0314011311.10	35.772	141.088	35	4.9	---	PDE-Q
2011	0314012323.39	37.310	142.471	61	4.6	---	PDE-Q
2011	0314012751.88	37.668	142.181	44	4.6	---	PDE-Q
2011	0314013435.82	37.736	143.422	38	5.0	---	PDE-Q
2011	0314013807.69	35.709	141.630	38	4.4	---	PDE-Q
2011	0314014020.78	38.108	143.847	5	5.2	---	PDE-Q
2011	0314014256.23	37.607	143.653	35	4.9	---	PDE-Q
2011	0314014412.84	36.799	143.336	37	4.9	---	PDE-Q
2011	0314015617.80	37.630	142.590	37	4.8	---	PDE-Q
2011	0314015755.00	36.641	142.400	35	5.3	---	PDE-Q
2011	0314020437.82	39.537	143.494	30	4.9	---	PDE-Q
2011	0314020502.33	40.303	143.690	26	5.3	---	PDE-Q
2011	0314021128.84	36.083	140.670	10	4.9	---	PDE-Q
2011	0314021654.66	36.500	142.307	20	4.8	---	PDE-Q
2011	0314022627.72	35.944	141.341	47	4.8	---	PDE-Q
2011	0314022958.88	36.936	143.395	35	4.7	---	PDE-Q
2011	0314030147.19	38.768	142.040	49	4.9	---	PDE-Q
2011	0314030220.96	38.370	144.464	2	4.9	---	PDE-Q
2011	0314031007.86	38.354	141.877	42	5.2	---	PDE-Q
2011	0314031550.50	36.278	142.079	16	5.4	---	PDE-Q
2011	0314031846.29	39.157	144.403	30	5.6	---	PDE-Q
2011	0314032041.72	36.642	141.721	33	5.4	---	PDE-Q
2011	0314032442.87	37.830	142.658	14	4.9	---	PDE-Q
2011	0314033930.28	39.304	142.583	35	4.9	---	PDE-Q
2011	0314035003.01	36.102	142.163	35	4.7	---	PDE-Q
2011	0314035640.35	36.808	142.304	35	4.9	---	PDE-Q
2011	0314042005.82	36.736	144.684	10	4.9	---	PDE-Q
2011	0314042620.35	38.470	144.808	26	4.9	---	PDE-Q
2011	0314043444.05	39.711	144.208	35	4.8	---	PDE-Q
2011	0314043802.71	38.228	144.234	28	4.6	---	PDE-Q
2011	0314044410.82	36.791	142.294	35	4.7	---	PDE-Q
2011	0314044537.80	37.275	141.439	47	5.0	---	PDE-Q
2011	0314044823.47	36.713	143.619	10	5.2	---	PDE-Q

2011	0314045627.26	36.501	143.504	39	5.0	---	PDE-Q
2011	0314045754.33	36.744	143.463	17	5.2	---	PDE-Q
2011	0314045941.95	36.796	143.719	10	4.9	---	PDE-Q
2011	0314050939.92	39.531	143.632	31	4.9	---	PDE-Q
2011	0314051109.47	39.277	143.583	38	4.7	---	PDE-Q
2011	0314051426.30	36.467	141.952	24	4.7	---	PDE-Q
2011	0314051905.25	37.148	143.263	20	5.1	---	PDE-Q
2011	0314052301.26	37.550	142.736	29	4.9	---	PDE-Q
2011	0314052403.38	38.395	144.931	35	4.8	---	PDE-Q
2011	0314052713.27	35.287	142.131	33	5.0	---	PDE-Q
2011	0314053718.27	37.342	141.162	35	4.6	---	PDE-Q
2011	0314054215.39	39.784	143.532	18	5.1	---	PDE-Q
2011	0314054911.10	39.918	143.761	7	5.0	---	PDE-Q
2011	0314055039.41	36.470	143.252	35	4.9	---	PDE-Q
2011	0314055327.29	36.425	142.002	39	5.1	---	PDE-Q
2011	0314060242.42	38.136	144.785	24	5.0	---	PDE-Q
2011	0314060730.14	36.738	143.739	35	4.9	---	PDE-Q
2011	0314061236.26	37.800	142.505	14	6.1	---	PDE-Q
2011	0314061749.69	37.691	142.599	25	5.0	---	PDE-Q
2011	0314062729.00	36.945	141.747	35	5.3	---	PDE-Q
2011	0314064133.16	37.654	142.633	35	4.8	---	PDE-Q
2011	0314064354.88	39.101	142.374	31	5.4	---	PDE-Q
2011	0314064658.34	37.942	142.905	30	5.5	---	PDE-Q
2011	0314065222.77	36.899	141.110	37	5.4	---	PDE-Q
2011	0314065518.50	37.515	142.665	35	5.0	---	PDE-Q
2011	0314070014.39	39.324	143.374	21	5.2	---	PDE-Q
2011	0314070330.00	39.890	143.540	33	5.3	---	MOS
2011	0314071005.78	35.447	140.978	49	4.9	---	PDE-Q
2011	0314071356.71	36.893	142.618	35	4.7	---	PDE-Q
2011	0314072511.15	36.680	141.313	44	5.2	---	PDE-Q
2011	0314073031.15	37.913	142.682	46	4.9	---	PDE-Q
2011	0314073246.16	35.384	140.895	50	4.9	---	PDE-Q
2011	0314073832.77	37.692	142.618	50	4.8	---	PDE-Q
2011	0314074117.48	37.529	142.715	35	4.7	---	PDE-Q
2011	0314074507.98	38.026	141.704	76	4.5	---	PDE-Q
2011	0314075730.33	35.958	141.671	54	4.7	---	PDE-Q
2011	0314080845.39	35.911	141.923	40	4.7	---	PDE-Q
2011	0314081344.35	37.162	144.577	35	4.5	---	PDE-Q
2011	0314081453.02	37.300	143.637	35	4.6	---	PDE-Q
2011	0314081858.57	36.415	142.745	35	4.5	---	PDE-Q
2011	0314082358.38	38.058	141.942	53	4.9	---	PDE-Q

2011	0314084032.07	37.195	142.521	35	4.5	---	PDE-Q
2011	0314084516.97	37.877	142.422	14	4.8	---	PDE-Q
2011	0314085135.48	36.194	143.106	35	4.7	---	PDE-Q
2011	0314085216.42	35.272	141.855	35	4.7	---	PDE-Q
2011	0314085358.32	38.490	144.552	22	4.7	---	PDE-Q
2011	0314085607.72	36.203	142.551	35	4.8	---	PDE-Q
2011	0314085723.86	38.372	144.272	35	4.8	---	PDE-Q
2011	0314085818.34	35.916	141.850	22	5.1	---	PDE-Q
2011	0314090202.05	35.426	140.902	48	4.9	---	PDE-Q
2011	0314090749.30	36.935	141.274	33	5.2	---	PDE-Q
2011	0314092101.16	36.984	141.211	40	4.7	---	PDE-Q
2011	0314092320.24	35.523	141.303	24	5.0	---	PDE-Q
2011	0314092418.08	38.448	144.829	35	4.9	---	PDE-Q
2011	0314093846.76	39.370	142.036	27	5.1	---	PDE-Q
2011	0314094137.03	37.325	144.248	14	4.5	---	PDE-Q
2011	0314100859.08	37.126	143.616	37	5.1	---	PDE-Q
2011	0314102136.95	36.259	142.109	35	4.8	---	PDE-Q
2011	0314102755.35	36.681	141.257	35	4.4	---	PDE-Q
2011	0314102841.68	37.238	142.164	22	5.4	---	PDE-Q
2011	0314102905.05	39.658	142.466	20	5.4	---	PDE-Q
2011	0314103452.04	39.740	142.546	25	5.2	---	PDE-Q
2011	0314104241.82	36.194	141.879	22	5.0	---	PDE-Q
2011	0314104952.82	38.316	142.186	49	4.8	---	PDE-Q
2011	0314110059.84	37.353	143.760	35	4.7	---	PDE-Q
2011	0314110634.12	36.873	140.583	23	5.1	---	PDE-Q
2011	0314112722.51	36.564	141.851	10	4.9	---	PDE-Q
2011	0314112929.87	39.466	142.703	48	4.7	---	PDE-Q
2011	0314114836.23	35.867	141.577	31	4.9	---	PDE-Q
2011	0314120428.66	35.880	141.107	29	4.9	---	PDE-Q
2011	0314120907.34	37.735	144.018	35	4.6	---	PDE-Q
2011	0314121745.76	40.007	144.461	30	4.6	---	PDE-Q
2011	0314122856.39	36.421	144.648	35	4.7	---	PDE-Q
2011	0314123239.01	36.582	144.553	35	4.6	---	PDE-Q
2011	0314123441.67	36.483	143.357	35	4.6	---	PDE-Q
2011	0314123928.63	36.555	144.586	35	4.7	---	PDE-Q
2011	0314124531.71	36.766	144.502	25	5.1	---	PDE-Q
2011	0314124815.49	35.711	140.849	56	4.6	---	PDE-Q
2011	0314125128.94	36.485	142.223	48	4.5	---	PDE-Q
2011	0314125455.60	36.564	142.058	21	4.5	---	PDE-Q
2011	0314130048.35	37.857	143.141	43	4.7	---	PDE-Q
2011	0314130210.57	37.218	144.230	7	4.9	---	PDE-Q

2011	0314131543.04	39.316	143.641	23	4.9	---	PDE-Q
2011	0314132006.67	36.502	141.785	24	4.9	---	PDE-Q
2011	0314133258.82	37.266	144.762	10	5.0	---	PDE-Q
2011	0314133546.86	37.467	141.984	17	4.6	---	PDE-Q
2011	0314135309.44	36.798	142.112	24	5.0	---	PDE-Q
2011	0314135701.25	38.104	144.831	25	4.9	---	PDE-Q
2011	0314140758.93	37.709	144.249	35	4.6	---	PDE-Q
2011	0314141154.57	39.975	143.181	12	4.8	---	PDE-Q
2011	0314141606.46	35.768	141.451	35	4.6	---	PDE-Q
2011	0314142237.46	36.175	141.677	28	5.4	---	PDE-Q
2011	0314143455.82	36.578	144.500	35	4.6	---	PDE-Q
2011	0314143924.20	37.262	142.503	6	4.7	---	PDE-Q
2011	0314144702.19	39.777	143.323	10	4.6	---	PDE-Q
2011	0314145056.09	38.327	142.121	39	5.4	---	PDE-Q
2011	0314145139.21	38.550	143.209	19	5.4	---	PDE-Q
2011	0314145302.04	37.594	142.948	35	5.1	---	PDE-Q
2011	0314145502.26	36.256	141.577	48	4.5	---	PDE-Q
2011	0314150050.21	36.328	141.747	38	5.1	---	PDE-Q
2011	0314150220.34	38.001	144.213	35	4.9	---	PDE-Q
2011	0314150305.67	37.242	142.390	35	4.8	---	PDE-Q
2011	0314150349.03	36.463	142.066	10	4.9	---	PDE-Q
2011	0314150923.45	38.413	142.789	35	4.8	---	PDE-Q
2011	0314151112.80	36.283	141.952	36	5.0	---	PDE-Q
2011	0314152256.61	36.369	141.795	16	4.8	---	PDE-Q
2011	0314152352.60	37.199	143.618	30	5.3	---	PDE-Q
2011	0314153001.15	37.735	142.297	49	4.9	---	PDE-Q
2011	0314153905.85	38.968	143.108	35	4.8	---	PDE-Q
2011	0314154601.75	36.237	143.349	35	4.6	---	PDE-Q
2011	0314154626.29	37.408	143.789	35	4.9	---	PDE-Q
2011	0314155002.77	37.039	142.651	35	4.9	---	PDE-Q
2011	0314155017.21	39.419	143.594	25	4.8	---	PDE-Q
2011	0314155608.03	37.055	141.609	20	4.9	---	PDE-Q
2011	0314155944.95	37.978	144.252	23	4.7	---	PDE-Q
2011	0314160824.67	36.743	142.348	35	4.6	---	PDE-Q
2011	0314161130.97	36.570	141.121	35	4.8	---	PDE-Q
2011	0314161435.08	37.965	144.492	35	4.7	---	PDE-Q
2011	0314162259.51	38.420	142.605	7	5.0	---	PDE-Q
2011	0314162442.41	36.911	143.784	35	4.6	---	PDE-Q
2011	0314164747.76	37.808	143.985	15	4.6	---	PDE-Q
2011	0314165013.93	36.319	141.823	35	4.5	---	PDE-Q
2011	0314171118.04	37.136	143.191	10	4.8	---	PDE-Q

2011	0314171444.81	36.907	142.943	11	5.1	---	PDE-Q
2011	0314172604.53	37.656	142.164	34	5.1	---	PDE-Q
2011	0314174959.09	37.664	144.616	38	4.9	---	PDE-Q
2011	0314175941.38	37.212	142.413	19	5.7	---	PDE-Q
2011	0314181100.88	36.529	141.831	23	4.9	---	PDE-Q
2011	0314183459.30	37.740	144.230	8	4.8	---	PDE-Q
2011	0314183536.73	37.357	141.256	1	4.9	---	PDE-Q
2011	0314184009.98	37.996	144.332	7	5.0	---	PDE-Q
2011	0314184101.21	36.594	141.895	23	5.4	---	PDE-Q
2011	0314184915.46	37.963	144.372	35	4.8	---	PDE-Q
2011	0314185552.38	37.937	143.885	35	4.8	---	PDE-Q
2011	0314185828.14	37.777	143.823	11	4.6	---	PDE-Q
2011	0314190400.00	36.000	140.900	30	5.0	---	JMA
2011	0314190449.66	36.664	142.081	35	4.9	---	PDE-Q
2011	0314190722.82	38.152	143.280	8	4.9	---	PDE-Q
2011	0314191136.12	37.455	142.810	17	4.8	---	PDE-Q
2011	0314191256.26	36.513	141.883	35	4.9	---	PDE-Q
2011	0314192719.83	37.120	142.433	35	4.6	---	PDE-Q
2011	0314192827.76	38.684	141.965	26	5.3	---	PDE-Q
2011	0314192923.77	38.493	141.915	14	5.2	---	PDE-Q
2011	0314193136.55	36.521	141.825	42	4.9	---	PDE-Q
2011	0314193234.11	38.157	142.740	35	4.8	---	PDE-Q
2011	0314193413.70	39.114	142.989	55	5.0	---	PDE-Q
2011	0314194201.01	37.099	144.389	35	4.7	---	PDE-Q
2011	0314194842.88	36.284	143.773	17	4.9	---	PDE-Q
2011	0314195636.72	37.595	142.432	22	4.6	---	PDE-Q
2011	0314200435.59	35.910	140.880	47	4.9	---	PDE-Q
2011	0314200726.79	36.714	144.712	6	4.6	---	PDE-Q
2011	0314200859.79	37.805	144.255	36	5.0	---	PDE-Q
2011	0314200956.02	37.247	141.608	41	4.7	---	PDE-Q
2011	0314201041.58	36.668	143.714	35	5.0	---	PDE-Q
2011	0314201155.76	38.018	144.322	15	4.9	---	PDE-Q
2011	0314202326.39	36.652	143.289	18	4.9	---	PDE-Q
2011	0314202931.40	36.522	144.569	34	4.8	---	PDE-Q
2011	0314204546.53	36.948	142.735	35	4.9	---	PDE-Q
2011	0314204825.23	37.837	143.815	35	4.7	---	PDE-Q
2011	0314210119.99	39.097	143.465	13	4.9	---	PDE-Q
2011	0314211111.75	35.698	141.782	35	4.9	---	PDE-Q
2011	0314211231.10	37.250	142.329	44	4.8	---	PDE-Q
2011	0314211355.86	36.842	143.175	35	4.7	---	PDE-Q
2011	0314211442.20	36.008	142.368	35	4.9	---	PDE-Q

2011	0314212935.53	36.520	141.611	18	4.8	---	PDE-Q
2011	0314214632.59	37.791	143.174	35	4.6	---	PDE-Q
2011	0314220407.98	35.735	141.065	15	5.2	---	PDE-Q
2011	0314221202.18	36.822	142.170	13	4.7	---	PDE-Q
2011	0314221646.11	35.938	141.643	35	4.8	---	PDE-Q
2011	0314222233.94	39.162	142.471	43	4.9	---	PDE-Q
2011	0314222642.88	37.224	143.677	35	4.9	---	PDE-Q
2011	0314222924.86	37.053	140.733	35	4.9	---	PDE-Q
2011	0314223054.82	38.592	144.402	25	5.1	---	PDE-Q
2011	0314223231.91	37.388	142.658	16	5.1	---	PDE-Q
2011	0314224136.21	38.610	142.058	35	5.0	---	PDE-Q
2011	0314230016.64	38.826	141.993	35	5.0	---	PDE-Q
2011	0314231316.79	37.159	142.368	35	4.9	---	PDE-Q
2011	0314231514.11	36.162	141.837	35	5.1	---	PDE-Q
2011	0314231741.55	37.641	144.255	29	5.1	---	PDE-Q
2011	0314232202.24	40.393	143.848	35	5.4	---	PDE-Q
2011	0314232313.76	40.050	142.636	25	5.3	---	PDE-Q
2011	0314232507.91	37.591	143.860	36	4.9	---	PDE-Q
2011	0314233823.70	36.930	144.012	25	5.2	---	PDE-Q
2011	0315000252.35	36.121	141.175	19	4.9	---	PDE-Q
2011	0315002001.97	36.132	142.241	35	4.9	---	PDE-Q
2011	0315002523.70	36.296	141.457	37	4.4	---	PDE-Q
2011	0315003515.09	35.912	141.429	19	4.5	---	PDE-Q
2011	0315003837.53	37.216	141.660	43	5.0	---	PDE-Q
2011	0315004107.56	39.322	144.248	38	4.9	---	PDE-Q
2011	0315004608.80	37.974	144.003	35	5.1	---	PDE-Q
2011	0315012824.69	39.096	143.393	35	4.8	---	PDE-Q
2011	0315013546.08	39.536	142.688	35	5.0	---	PDE-Q
2011	0315021540.61	36.400	143.308	6	4.8	---	PDE-Q
2011	0315021714.72	35.994	141.606	31	5.0	---	PDE-Q
2011	0315023158.85	35.807	140.938	41	4.9	---	PDE-Q
2011	0315023753.47	37.317	144.393	10	4.9	---	PDE-Q
2011	0315025651.89	36.522	142.830	35	4.4	---	PDE-Q
2011	0315031727.29	39.093	142.484	42	4.9	---	PDE-Q
2011	0315032046.56	35.769	140.863	28	5.1	---	PDE-Q
2011	0315032135.28	37.705	143.938	26	5.2	---	PDE-Q
2011	0315040845.95	36.913	142.072	22	5.0	---	PDE-Q
2011	0315041637.51	36.977	144.572	10	4.9	---	PDE-Q
2011	0315044629.96	38.125	143.954	35	4.8	---	PDE-Q
2011	0315045551.49	39.366	141.894	60	4.9	---	PDE-Q
2011	0315050501.26	35.454	141.775	35	4.9	---	PDE-Q

2011	0315052835.93	35.997	140.472	35	5.1	---	PDE-Q
2011	0315053125.48	36.162	142.232	25	5.2	---	PDE-Q
2011	0315054024.67	37.945	141.965	25	4.9	---	PDE-Q
2011	0315060626.18	36.466	143.339	35	4.7	---	PDE-Q
2011	0315061525.43	36.341	142.700	35	4.6	---	PDE-Q
2011	0315062119.90	39.830	142.680	42	4.9	---	PDE-Q
2011	0315063131.54	37.327	142.140	35	5.1	---	PDE-Q
2011	0315064027.07	37.517	143.732	30	5.2	---	PDE-Q
2011	0315065631.54	36.864	140.363	30	5.0	---	PDE-Q
2011	0315070349.43	36.803	140.337	35	5.2	---	PDE-Q
2011	0315070830.78	38.339	142.215	43	5.2	---	PDE-Q
2011	0315071809.40	36.109	142.311	9	4.9	---	PDE-Q
2011	0315072300.68	37.367	144.356	19	5.2	---	PDE-Q
2011	0315072521.11	37.123	142.325	39	5.1	---	PDE-Q
2011	0315073544.69	37.492	142.297	35	5.1	---	PDE-Q
2011	0315074830.71	37.160	141.224	52	4.8	---	PDE-Q
2011	0315080143.95	40.404	143.247	12	5.4	---	ZUR
2011	0315080837.08	38.230	144.570	35	4.9	---	PDE-Q
2011	0315081147.70	37.032	143.885	35	5.0	---	PDE-Q
2011	0315081659.52	38.539	144.051	45	5.0	---	PDE-Q
2011	0315082825.71	37.164	143.693	5	5.1	---	PDE-Q
2011	0315083620.51	36.642	142.564	15	5.1	---	PDE-Q
2011	0315084533.53	35.864	141.444	49	5.1	---	PDE-Q
2011	0315084635.53	36.585	143.869	25	4.8	---	PDE-Q
2011	0315084824.56	37.521	143.537	38	5.5	---	PDE-Q
2011	0315085641.87	39.469	142.577	47	4.9	---	PDE-Q
2011	0315091600.81	35.601	141.887	31	5.0	---	PDE-Q
2011	0315093052.85	37.573	143.805	10	4.9	---	PDE-Q
2011	0315093447.86	39.790	143.468	27	4.9	---	PDE-Q
2011	0315093709.32	37.953	143.718	25	4.9	---	PDE-Q
2011	0315094100.00	35.900	141.000	0	4.7	---	JMA
2011	0315094627.44	37.777	143.819	35	5.0	---	PDE-Q
2011	0315094954.00	37.520	142.390	33	5.8	---	MOS
2011	0315095205.61	37.245	142.348	48	5.1	---	PDE-Q
2011	0315100231.39	37.949	143.839	35	4.6	---	PDE-Q
2011	0315101651.66	38.895	144.453	20	5.0	---	PDE-Q
2011	0315101847.55	38.953	144.366	25	4.9	---	PDE-Q
2011	0315103128.29	35.798	140.647	42	5.1	---	PDE-Q
2011	0315104321.50	38.843	144.371	35	4.9	---	PDE-Q
2011	0315104823.52	37.958	144.315	39	4.6	---	PDE-Q
2011	0315104959.98	35.593	141.889	25	5.4	---	PDE-Q

2011	0315110616.10	37.145	142.375	22	5.4	---	PDE-Q
2011	0315112511.26	36.795	143.258	35	4.4	---	PDE-Q
2011	0315112847.19	36.867	142.488	35	4.9	---	PDE-Q
2011	0315113200.14	36.612	144.487	38	4.6	---	PDE-Q
2011	0315113557.37	37.593	142.533	35	4.9	---	PDE-Q
2011	0315113840.23	36.561	144.581	21	4.8	---	PDE-Q
2011	0315114347.56	37.819	145.118	18	5.2	---	PDE-Q
2011	0315114619.52	40.530	142.689	14	5.4	---	PDE-Q
2011	0315115324.56	37.001	143.681	35	4.9	---	PDE-Q
2011	0315121652.53	39.206	143.491	19	4.6	---	PDE-Q
2011	0315123310.76	38.977	142.631	25	5.2	---	PDE-Q
2011	0315125145.52	38.925	144.209	25	4.9	---	PDE-Q
2011	0315125351.91	39.100	142.281	35	4.5	---	PDE-Q
2011	0315131046.64	36.717	140.991	35	4.8	---	PDE-Q
2011	0315131824.68	37.972	142.982	18	4.8	---	PDE-Q
2011	0315132756.61	37.574	142.226	28	6.0	---	PDE-Q
2011	0315133756.44	37.707	141.900	38	5.4	---	PDE-Q
2011	0315134538.49	39.300	144.388	10	4.8	---	PDE-Q
2011	0315134709.87	37.350	142.153	35	5.3	---	PDE-Q
2011	0315135435.23	36.925	144.520	17	5.0	---	PDE-Q
2011	0315135510.30	38.098	143.025	42	5.0	---	PDE-Q
2011	0315142002.06	36.500	143.886	35	4.6	---	PDE-Q
2011	0315142414.44	37.542	142.064	35	4.4	---	PDE-Q
2011	0315143023.61	40.177	143.662	16	4.9	---	PDE-Q
2011	0315143114.42	37.323	142.507	11	4.8	---	PDE-Q
2011	0315144038.67	39.728	142.542	30	4.9	---	PDE-Q
2011	0315145121.01	37.179	142.112	8	5.0	---	PDE-Q
2011	0315145325.40	37.432	143.687	35	4.8	---	PDE-Q
2011	0315145854.38	37.518	143.588	22	5.1	---	PDE-Q
2011	0315150355.40	37.054	142.004	39	4.9	---	PDE-Q
2011	0315150648.20	36.587	141.122	25	4.6	---	PDE-Q
2011	0315150735.42	37.274	142.745	35	4.4	---	PDE-Q
2011	0315152354.03	40.330	143.271	19	6.1	---	PDE-Q
2011	0315155622.51	37.085	143.869	35	4.9	---	PDE-Q
2011	0315160338.42	37.355	141.284	35	4.8	---	PDE-Q
2011	0315160934.34	37.811	143.915	0	5.0	---	PDE-Q
2011	0315162305.33	37.025	140.314	36	5.0	---	PDE-Q
2011	0315163737.53	37.577	142.118	48	4.9	---	PDE-Q
2011	0315164114.81	38.072	142.076	51	4.8	---	PDE-Q
2011	0315171404.39	36.024	143.509	35	4.8	---	PDE-Q
2011	0315174053.54	35.487	141.093	25	4.9	---	PDE-Q

2011	0315175158.98	36.116	140.988	35	4.4	---	PDE-Q
2011	0315175623.08	37.089	142.239	36	4.9	---	PDE-Q
2011	0315180222.28	40.315	143.719	35	4.5	---	PDE-Q
2011	0315180817.05	35.975	143.255	35	4.9	---	PDE-Q
2011	0315181939.77	36.630	141.165	45	4.7	---	PDE-Q
2011	0315182913.21	37.651	143.548	34	5.3	---	PDE-Q
2011	0315184122.49	38.959	143.335	35	4.8	---	PDE-Q
2011	0315184127.48	37.457	141.749	40	4.7	---	PDE-Q
2011	0315184812.65	37.711	144.018	24	4.4	---	PDE-Q
2011	0315185734.34	36.828	143.646	24	4.8	---	PDE-Q
2011	0315190129.74	38.147	142.022	4	5.4	---	PDE-Q
2011	0315191335.09	38.566	143.263	10	5.2	---	PDE-Q
2011	0315192136.90	36.834	143.532	35	4.8	---	PDE-Q
2011	0315193946.76	36.978	143.687	35	4.5	---	PDE-Q
2011	0315194036.32	37.801	143.641	35	4.9	---	PDE-Q
2011	0315194616.39	36.968	142.270	15	4.9	---	PDE-Q
2011	0315194851.56	39.178	143.211	35	4.9	---	PDE-Q
2011	0315195007.54	37.463	141.668	35	4.8	---	PDE-Q
2011	0315195320.14	37.692	142.253	32	5.2	---	PDE-Q
2011	0315200019.09	37.998	143.778	33	4.9	---	PDE-Q
2011	0315200251.32	34.909	141.215	35	4.8	---	PDE-Q
2011	0315200351.37	38.394	142.293	35	5.0	---	PDE-Q
2011	0315201431.93	37.740	143.412	10	5.4	---	PDE-Q
2011	0315203000.98	35.252	141.193	24	5.6	---	PDE-Q
2011	0315204440.90	38.791	142.422	3	5.0	---	PDE-Q
2011	0315205343.01	36.832	140.800	35	4.8	---	PDE-Q
2011	0315210450.98	36.721	140.389	20	5.1	---	PDE-Q
2011	0315212630.44	37.544	141.826	35	4.7	---	PDE-Q
2011	0315213507.99	37.750	145.051	35	5.1	---	PDE-Q
2011	0315214209.81	39.670	143.095	17	5.1	---	PDE-Q
2011	0315215155.07	36.268	141.901	36	4.6	---	PDE-Q
2011	0315221512.54	37.339	143.733	35	5.0	---	PDE-Q
2011	0315223716.79	37.456	144.184	25	5.2	---	PDE-Q
2011	0315230657.86	38.669	144.329	35	5.1	---	PDE-Q
2011	0315232330.82	36.901	142.701	16	5.1	---	PDE-Q
2011	0315234000.00	36.700	140.600	10	4.5	---	JMA
2011	0315235252.73	38.755	144.245	35	5.0	---	PDE-Q
2011	0315235805.38	35.844	141.232	25	5.1	---	PDE-Q
2011	0316000605.40	36.208	141.911	22	4.7	---	PDE-Q
2011	0316002204.51	37.274	143.522	35	4.9	---	PDE-Q
2011	0316002229.57	36.224	141.077	24	5.1	---	PDE-Q

2011	0316002904.26	38.314	142.896	24	5.1	---	PDE-Q
2011	0316003010.52	35.861	141.940	35	5.0	---	PDE-Q
2011	0316010319.28	36.092	143.372	25	4.9	---	PDE-Q
2011	0316010800.00	36.300	141.000	30	4.7	---	JMA
2011	0316012859.90	37.791	144.525	24	4.8	---	PDE-Q
2011	0316014410.80	36.238	141.911	14	4.9	---	PDE-Q
2011	0316015508.69	37.495	143.016	25	5.2	---	PDE-Q
2011	0316020055.47	38.719	144.133	12	4.7	---	PDE-Q
2011	0316023449.05	36.290	142.460	35	4.9	---	PDE-Q
2011	0316023634.85	36.438	143.274	7	4.9	---	PDE-Q
2011	0316024712.00	37.670	142.540	33	5.1	---	MOS
2011	0316024829.38	39.962	142.345	35	4.9	---	PDE-Q
2011	0316032332.60	37.173	141.133	10	4.9	---	PDE-Q
2011	0316035202.97	35.747	140.710	10	5.8	---	PDE-Q
2011	0316035954.25	39.645	143.647	40	4.6	---	PDE-Q
2011	0316041430.52	37.551	141.429	17	5.5	---	PDE-Q
2011	0316041726.89	35.747	140.907	35	4.9	---	PDE-Q
2011	0316043854.70	36.606	142.170	35	4.9	---	PDE-Q
2011	0316044457.26	36.955	143.224	9	5.1	---	PDE-Q
2011	0316050112.10	36.993	142.641	45	4.8	---	PDE-Q
2011	0316050935.71	37.478	142.012	35	4.4	---	PDE-Q
2011	0316051626.59	37.923	142.582	21	4.4	---	PDE-Q
2011	0316052334.66	37.232	144.283	36	5.1	---	PDE-Q
2011	0316061523.54	39.252	144.517	25	5.0	---	PDE-Q
2011	0316062903.05	39.969	142.090	31	5.8	---	PDE-Q
2011	0316065129.26	35.659	140.887	54	4.9	---	PDE-Q
2011	0316065501.53	36.667	143.118	27	5.2	---	PDE-Q
2011	0316070611.48	37.840	144.053	30	5.1	---	PDE-Q
2011	0316071806.10	38.615	143.993	35	4.7	---	PDE-Q
2011	0316081710.25	37.310	143.585	29	5.3	---	PDE-Q
2011	0316085828.87	37.180	142.434	30	4.9	---	PDE-Q
2011	0316091506.24	37.194	143.593	35	5.0	---	PDE-Q
2011	0316091727.83	35.962	142.366	34	5.0	---	PDE-Q
2011	0316091909.90	37.524	143.914	31	5.0	---	PDE-Q
2011	0316093714.87	35.109	141.237	35	4.9	---	PDE-Q
2011	0316100135.72	36.240	142.235	35	5.1	---	PDE-Q
2011	0316101609.00	39.650	143.750	30	5.3	---	BJI
2011	0316102407.09	37.955	144.194	25	5.1	---	PDE-Q
2011	0316102632.51	39.701	143.755	22	5.0	---	PDE-Q
2011	0316103133.11	37.801	144.276	27	4.9	---	PDE-Q
2011	0316105352.37	37.376	143.867	35	4.4	---	PDE-Q

2011	0316112006.81	36.278	141.106	25	5.2	---	PDE-Q
2011	0316112914.89	39.877	143.601	31	5.1	---	PDE-Q
2011	0316113753.63	38.830	142.623	35	4.9	---	PDE-Q
2011	0316114456.43	37.714	141.407	25	5.1	---	PDE-Q
2011	0316115144.84	37.764	143.106	25	4.9	---	PDE-Q
2011	0316120248.76	35.723	141.800	25	5.2	---	PDE-Q
2011	0316121510.13	36.328	143.020	18	4.9	---	PDE-Q
2011	0316122517.78	37.628	143.447	35	4.5	---	PDE-Q
2011	0316123946.49	35.637	142.037	26	4.8	---	PDE-Q
2011	0316124522.51	36.400	142.887	25	5.1	---	PDE-Q
2011	0316124837.19	37.341	142.564	26	5.2	---	PDE-Q
2011	0316125422.58	37.357	143.815	30	5.0	---	PDE-Q
2011	0316131622.78	37.701	143.712	35	4.4	---	PDE-Q
2011	0316132637.07	38.768	142.252	35	4.5	---	PDE-Q
2011	0316133357.60	35.779	140.586	54	4.6	---	PDE-Q
2011	0316133537.03	37.195	143.690	28	4.4	---	PDE-Q
2011	0316133840.42	36.631	140.699	29	5.4	---	PDE-Q
2011	0316135028.37	37.117	141.327	40	4.7	---	PDE-Q
2011	0316135406.73	37.469	141.178	36	5.0	---	PDE-Q
2011	0316135930.51	36.662	143.403	35	4.7	---	PDE-Q
2011	0316141202.54	37.582	144.436	35	4.4	---	PDE-Q
2011	0316142740.17	38.836	144.363	23	5.0	---	PDE-Q
2011	0316142818.94	36.542	141.867	35	4.9	---	PDE-Q
2011	0316143814.72	39.220	142.900	38	5.0	---	PDE-Q
2011	0316144143.68	38.208	144.441	10	4.8	---	PDE-Q
2011	0316144608.96	38.529	141.656	40	5.4	---	PDE-Q
2011	0316150056.67	39.056	144.499	17	5.1	---	PDE-Q
2011	0316150401.58	38.998	144.633	2	4.9	---	PDE-Q
2011	0316150520.70	39.141	143.295	28	4.7	---	PDE-Q
2011	0316150828.12	38.300	141.742	43	5.1	---	PDE-Q
2011	0316152702.84	36.323	142.370	35	5.1	---	PDE-Q
2011	0316154254.65	36.404	143.070	10	5.0	---	PDE-Q
2011	0316155350.50	36.395	143.495	35	4.7	---	PDE-Q
2011	0316161241.19	37.554	143.933	35	4.9	---	PDE-Q
2011	0316162009.95	36.368	143.073	18	4.7	---	PDE-Q
2011	0316163306.80	37.186	142.321	36	4.7	---	PDE-Q
2011	0316164045.63	37.169	142.302	24	4.5	---	PDE-Q
2011	0316164443.19	37.210	142.566	13	4.5	---	PDE-Q
2011	0316171842.57	38.416	144.735	35	4.7	---	PDE-Q
2011	0316171928.21	35.542	140.754	25	5.1	---	PDE-Q
2011	0316172604.68	34.740	140.979	35	5.0	---	PDE-Q

2011	0316174742.20	36.290	141.711	43	4.9	---	PDE-Q
2011	0316175510.55	36.717	142.225	38	4.9	---	PDE-Q
2011	0316181118.32	38.461	144.780	35	4.6	---	PDE-Q
2011	0316181259.74	37.161	142.134	35	5.3	---	PDE-Q
2011	0316183629.90	39.715	142.825	35	4.8	---	PDE-Q
2011	0316183949.41	37.411	142.629	35	5.0	---	PDE-Q
2011	0316184053.93	37.125	142.760	23	5.1	---	PDE-Q
2011	0316185628.92	37.182	140.845	57	4.7	---	PDE-Q
2011	0316190032.75	37.659	141.726	35	4.9	---	PDE-Q
2011	0316191503.04	37.591	142.859	44	4.7	---	PDE-Q
2011	0316193412.12	38.354	144.782	6	4.7	---	PDE-Q
2011	0316193502.61	37.641	141.987	25	5.2	---	PDE-Q
2011	0316200506.19	39.616	143.010	22	4.9	---	PDE-Q
2011	0316201117.30	37.384	144.266	9	4.6	---	PDE-Q
2011	0316201933.06	37.003	143.777	34	4.9	---	PDE-Q
2011	0316204417.72	37.340	143.791	18	5.1	---	PDE-Q
2011	0316204442.93	37.358	143.610	20	5.5	---	PDE-Q
2011	0316210848.24	37.159	143.738	35	5.1	---	PDE-Q
2011	0316211256.21	36.612	142.212	35	5.0	---	PDE-Q
2011	0316211600.00	36.900	140.800	0	4.7	---	JMA
2011	0316213242.24	37.966	142.664	13	4.9	---	PDE-Q
2011	0316214604.16	37.264	143.577	11	5.2	---	PDE-Q
2011	0316214620.07	37.238	143.569	35	4.9	---	PDE-Q
2011	0316215052.10	37.483	142.834	12	4.9	---	PDE-Q
2011	0316220321.31	37.609	143.482	40	5.4	---	PDE-Q
2011	0316220421.75	37.576	143.599	22	5.0	---	PDE-Q
2011	0316220503.39	36.017	140.963	12	5.2	---	PDE-Q
2011	0316220753.46	38.797	144.192	26	5.3	---	PDE-Q
2011	0316221452.06	38.831	144.205	27	5.4	---	PDE-Q
2011	0316222820.87	37.869	143.693	20	5.1	---	PDE-Q
2011	0316223245.14	36.874	143.698	35	4.9	---	PDE-Q
2011	0316224826.38	36.956	141.921	35	5.0	---	PDE-Q
2011	0316225308.31	36.282	141.780	40	5.0	---	PDE-Q
2011	0316225459.33	37.303	142.486	35	5.0	---	PDE-Q
2011	0316230313.50	38.694	142.100	35	5.1	---	PDE-Q
2011	0316231142.19	36.475	141.647	35	5.0	---	PDE-Q
2011	0316232917.65	37.665	143.216	10	5.1	---	PDE-Q
2011	0316233819.40	39.165	142.661	25	5.3	---	PDE-Q
2011	0317000856.62	37.713	143.982	11	4.9	---	PDE-Q
2011	0317001121.03	36.038	141.918	15	4.7	---	PDE-Q
2011	0317001612.20	37.235	141.985	35	5.1	---	PDE-Q

2011	0317004249.82	37.379	143.704	25	5.2	---	PDE-Q
2011	0317004555.27	36.095	141.118	33	5.1	---	PDE-Q
2011	0317005110.54	36.588	141.754	33	5.1	---	PDE-Q
2011	0317005413.97	37.394	143.702	35	4.4	---	PDE-Q
2011	0317010155.60	37.431	143.894	7	4.7	---	PDE-Q
2011	0317010525.40	38.772	144.361	8	5.1	---	PDE-Q
2011	0317010802.87	36.250	142.730	35	5.1	---	PDE-Q
2011	0317023759.33	36.788	142.113	15	5.0	---	PDE-Q
2011	0317024832.62	39.638	142.835	20	5.0	---	PDE-Q
2011	0317025030.99	39.215	142.451	60	4.9	---	PDE-Q
2011	0317031913.89	39.271	143.627	10	5.0	---	PDE-Q
2011	0317034356.56	38.205	142.745	26	4.9	---	PDE-Q
2011	0317035052.90	36.293	142.882	19	5.4	---	PDE-Q
2011	0317041356.85	40.149	142.155	29	6.0	---	PDE-Q
2011	0317042100.75	37.022	143.530	35	4.7	---	PDE-Q
2011	0317044715.01	37.992	143.969	35	4.6	---	PDE-Q
2011	0317050700.70	38.027	143.543	25	5.4	---	PDE-Q
2011	0317061242.94	37.755	143.451	25	5.6	---	PDE-Q
2011	0317061942.40	37.598	143.462	25	5.0	---	PDE-Q
2011	0317062431.85	37.249	142.293	25	5.5	---	PDE-Q
2011	0317063949.85	37.886	144.327	24	4.9	---	PDE-Q
2011	0317064246.30	38.709	143.911	36	5.5	---	PDE-Q
2011	0317064820.46	38.644	144.059	35	5.1	---	PDE-Q
2011	0317070012.69	38.726	143.870	46	5.2	---	PDE-Q
2011	0317070344.18	37.359	142.727	22	5.0	---	PDE-Q
2011	0317074759.08	38.704	143.990	13	4.8	---	PDE-Q
2011	0317080442.40	38.926	142.463	53	4.6	---	PDE-Q
2011	0317081404.57	37.954	144.151	10	4.6	---	PDE-Q
2011	0317082526.17	36.698	141.762	29	5.4	---	PDE-Q
2011	0317082933.38	38.642	144.524	10	5.2	---	PDE-Q
2011	0317084454.74	38.428	142.038	54	5.1	---	PDE-Q
2011	0317085942.94	40.344	142.371	40	5.2	---	PDE-Q
2011	0317090558.16	40.240	142.333	25	5.2	---	PDE-Q
2011	0317102109.77	37.123	143.659	24	4.5	---	PDE-Q
2011	0317104402.87	37.473	143.238	32	5.2	---	PDE-Q
2011	0317110959.06	38.884	142.443	25	4.9	---	PDE-Q
2011	0317113121.31	35.607	140.813	10	4.5	---	PDE-Q
2011	0317114800.00	37.300	141.400	0	4.8	---	JMA
2011	0317115627.06	39.144	144.837	35	4.6	---	PDE-Q
2011	0317120316.37	37.437	144.000	35	4.6	---	PDE-Q
2011	0317121604.31	37.712	144.215	25	4.9	---	PDE-Q

2011	0317121722.45	36.512	142.519	35	4.9	---	PDE-Q
2011	0317122038.81	37.651	144.193	35	4.8	---	PDE-Q
2011	0317123202.69	35.523	140.744	21	5.6	---	PDE-Q
2011	0317123325.00	35.481	140.877	34	5.3	---	PDE-Q
2011	0317123600.00	37.200	141.500	50	5.0	---	JMA
2011	0317125452.45	36.766	141.307	25	5.8	---	PDE-Q
2011	0317130229.71	37.693	144.202	35	4.4	---	PDE-Q
2011	0317130259.94	38.346	142.061	35	4.8	---	PDE-Q
2011	0317130422.35	35.488	140.770	35	4.7	---	PDE-Q
2011	0317133734.59	36.113	141.929	34	5.1	---	PDE-Q
2011	0317135837.79	36.162	141.662	35	5.0	---	PDE-Q
2011	0317140429.45	37.647	143.709	46	5.1	---	PDE-Q
2011	0317144129.69	35.971	141.458	35	4.7	---	PDE-Q
2011	0317144930.67	39.473	143.517	24	5.1	---	PDE-Q
2011	0317145002.70	35.438	140.848	35	5.1	---	PDE-Q
2011	0317145518.61	36.591	143.213	43	5.0	---	PDE-Q
2011	0317150029.81	40.048	142.316	56	5.1	---	PDE-Q
2011	0317150249.32	37.537	142.914	34	4.8	---	PDE-Q
2011	0317150849.07	39.232	143.327	47	4.8	---	PDE-Q
2011	0317154246.80	36.068	142.444	35	5.0	---	PDE-Q
2011	0317154517.42	38.504	142.265	52	5.0	---	PDE-Q
2011	0317155152.44	35.896	140.729	20	4.9	---	PDE-Q
2011	0317160037.92	36.605	142.088	36	5.2	---	PDE-Q
2011	0317162724.84	37.991	144.503	31	5.0	---	PDE-Q
2011	0317164434.26	35.922	141.485	42	5.2	---	PDE-Q
2011	0317165816.02	40.488	143.381	29	4.9	---	PDE-Q
2011	0317170240.02	37.264	142.453	35	5.1	---	PDE-Q
2011	0317170357.13	39.759	143.611	35	5.1	---	PDE-Q
2011	0317172247.56	40.395	142.341	48	4.9	---	PDE-Q
2011	0317172717.95	38.636	143.997	18	5.0	---	PDE-Q
2011	0317173155.63	37.713	143.434	30	5.3	---	NAO
2011	0317180119.95	37.701	144.409	23	5.3	---	PDE-Q
2011	0317181358.58	36.757	142.063	30	4.7	---	PDE-Q
2011	0317181729.12	38.334	142.328	28	4.9	---	PDE-Q
2011	0317182404.64	37.731	143.850	30	4.7	---	PDE-Q
2011	0317182617.29	35.951	141.204	10	4.9	---	PDE-Q
2011	0317183252.95	37.134	143.672	17	4.5	---	PDE-Q
2011	0317183810.00	37.500	141.090	33	5.1	---	MOS
2011	0317185537.70	37.175	142.291	30	5.5	---	PDE-Q
2011	0317190003.09	36.479	141.979	40	4.9	---	PDE-Q
2011	0317190256.12	38.239	142.286	45	5.3	---	PDE-Q

2011	0317190544.06	36.191	141.750	37	5.3	---	PDE-Q
2011	0317192819.17	36.994	142.570	15	4.9	---	PDE-Q
2011	0317193720.78	34.975	141.315	33	4.8	---	PDE-Q
2011	0317203303.61	37.488	143.565	25	4.9	---	PDE-Q
2011	0317205209.00	35.150	141.310	33	5.0	---	MOS
2011	0317210454.33	37.494	143.707	40	4.5	---	PDE-Q
2011	0317210506.79	37.548	143.601	38	4.4	---	PDE-Q
2011	0317210631.87	35.693	141.280	41	5.2	---	PDE-Q
2011	0317210956.53	36.589	141.266	36	4.4	---	PDE-Q
2011	0317211103.74	37.733	143.624	2	4.4	---	PDE-Q
2011	0317211229.22	36.991	143.791	35	4.5	---	PDE-Q
2011	0317212424.54	39.094	142.277	59	5.1	---	PDE-Q
2011	0317213853.67	34.981	141.338	25	4.6	---	PDE-Q
2011	0317215332.44	38.043	144.025	18	4.9	---	PDE-Q
2011	0317220112.52	38.115	141.954	27	4.4	---	PDE-Q
2011	0317222213.93	37.963	142.716	35	4.6	---	PDE-Q
2011	0317224110.70	37.478	143.699	35	4.4	---	PDE-Q
2011	0317225522.50	37.676	144.895	2	4.7	---	PDE-Q
2011	0317230126.44	36.471	143.956	39	5.1	---	PDE-Q
2011	0317230516.11	36.258	142.195	35	4.8	---	PDE-Q
2011	0317231140.79	38.996	142.602	45	5.1	---	PDE-Q
2011	0317231841.52	38.640	144.067	9	4.4	---	PDE-Q
2011	0317232355.90	37.721	143.612	35	4.7	---	PDE-Q
2011	0317234009.02	36.418	143.285	35	4.4	---	PDE-Q
2011	0317235642.35	36.554	143.285	35	4.5	---	PDE-Q
2011	0317235838.52	36.969	144.052	35	4.7	---	PDE-Q
2011	0318001204.63	35.502	142.060	9	5.2	---	PDE-Q
2011	0318003744.38	39.157	143.769	12	4.6	---	PDE-Q
2011	0318004121.80	35.863	141.697	46	5.5	---	PDE-Q
2011	0318005208.25	35.642	141.353	31	5.1	---	PDE-Q
2011	0318005315.35	37.098	142.458	35	4.9	---	PDE-Q
2011	0318010720.94	38.271	144.201	29	4.7	---	PDE-Q
2011	0318012032.44	37.192	142.819	7	4.7	---	PDE-Q
2011	0318013742.99	36.445	144.105	35	4.9	---	PDE-Q
2011	0318015023.47	36.741	140.430	23	4.8	---	PDE-Q
2011	0318021624.58	37.724	143.584	28	4.8	---	PDE-Q
2011	0318021911.52	36.656	144.605	15	4.9	---	PDE-Q
2011	0318024747.14	37.180	141.765	30	5.3	---	PDE-Q
2011	0318025516.77	39.432	142.638	36	4.8	---	PDE-Q
2011	0318032143.68	38.393	144.642	22	4.8	---	PDE-Q
2011	0318032353.84	37.763	143.476	6	5.4	---	PDE-Q

2011	0318043535.85	37.667	143.996	11	4.9	---	PDE-Q
2011	0318050944.63	37.828	143.540	35	5.0	---	PDE-Q
2011	0318051224.99	36.426	143.208	22	5.1	---	PDE-Q
2011	0318051841.77	34.934	141.110	49	5.0	---	PDE-Q
2011	0318052321.37	37.670	143.468	40	5.0	---	PDE-Q
2011	0318053353.11	37.441	141.340	15	4.7	---	PDE-Q
2011	0318055759.16	37.473	141.089	64	4.8	---	PDE-Q
2011	0318072744.22	38.151	143.379	45	5.0	---	PDE-Q
2011	0318072823.37	36.777	141.106	26	5.2	---	PDE-Q
2011	0318073048.81	38.835	141.834	55	5.0	---	PDE-Q
2011	0318073547.39	38.253	144.733	13	4.9	---	PDE-Q
2011	0318074132.94	39.250	142.937	30	5.1	---	PDE-Q
2011	0318074213.22	38.341	143.234	22	5.2	---	PDE-Q
2011	0318080136.23	35.740	140.866	43	5.5	---	PDE-Q
2011	0318082645.20	37.690	143.321	17	4.8	---	PDE-Q
2011	0318083714.76	37.726	144.072	41	5.0	---	PDE-Q
2011	0318102513.58	37.443	144.116	10	4.5	---	PDE-Q
2011	0318103514.61	39.877	143.190	35	4.9	---	PDE-Q
2011	0318103909.16	37.311	144.388	42	5.0	---	PDE-Q
2011	0318111424.44	36.223	142.053	35	4.4	---	PDE-Q
2011	0318112042.60	37.700	143.696	10	4.9	---	PDE-Q
2011	0318121701.90	38.930	142.447	32	5.2	---	PDE-Q
2011	0318122106.73	37.997	142.342	33	5.1	---	PDE-Q
2011	0318123156.89	36.284	141.905	37	4.7	---	PDE-Q
2011	0318123335.39	37.709	142.946	35	4.5	---	PDE-Q
2011	0318123633.37	36.743	140.475	48	4.6	---	PDE-Q
2011	0318124009.08	37.594	144.095	35	4.5	---	PDE-Q
2011	0318125711.06	40.033	144.290	29	5.1	---	PDE-Q
2011	0318125930.83	38.353	142.268	45	4.9	---	PDE-Q
2011	0318130052.83	35.676	143.505	35	4.9	---	PDE-Q
2011	0318131541.09	37.521	143.967	35	5.0	---	PDE-Q
2011	0318133311.39	37.617	141.201	35	4.4	---	PDE-Q
2011	0318133841.70	37.707	143.323	25	5.3	---	PDE-Q
2011	0318134408.03	37.650	143.406	35	4.9	---	PDE-Q
2011	0318143116.19	37.657	143.396	34	5.1	---	PDE-Q
2011	0318150301.26	36.723	143.111	49	5.1	---	PDE-Q
2011	0318162329.94	39.249	143.358	25	5.1	---	PDE-Q
2011	0318163105.54	37.102	141.440	35	4.7	---	PDE-Q
2011	0318164059.66	36.677	141.655	36	4.9	---	PDE-Q
2011	0318171202.05	35.950	142.351	35	4.6	---	PDE-Q
2011	0318172853.72	35.099	141.499	27	5.3	---	PDE-Q

2011	0318174605.18	35.680	141.758	12	4.9	---	PDE-Q
2011	0318174849.16	36.876	143.225	36	5.0	---	PDE-Q
2011	0318175944.47	35.223	141.242	32	4.9	---	PDE-Q
2011	0318183250.31	39.158	142.351	56	5.2	---	PDE-Q
2011	0318183825.35	37.038	144.341	35	4.9	---	PDE-Q
2011	0318190430.56	37.089	141.718	45	4.6	---	PDE-Q
2011	0318191647.68	39.783	143.264	41	5.2	---	PDE-Q
2011	0318191920.54	36.464	142.657	40	5.2	---	PDE-Q
2011	0318195109.17	36.450	141.984	14	4.9	---	PDE-Q
2011	0318195304.99	37.568	141.580	46	5.4	---	PDE-Q
2011	0318200645.74	38.403	144.896	26	5.0	---	PDE-Q
2011	0318201523.69	39.662	143.136	26	5.3	---	PDE-Q
2011	0318203236.82	37.269	141.600	47	5.2	---	PDE-Q
2011	0318203623.37	37.078	141.873	35	4.5	---	PDE-Q
2011	0318210934.60	37.485	145.051	15	5.4	---	PDE-Q
2011	0318211855.31	36.154	141.174	48	5.2	---	PDE-Q
2011	0318215447.92	37.394	141.995	35	4.4	---	PDE-Q
2011	0318221001.77	38.113	143.073	46	4.4	---	PDE-Q
2011	0318230031.84	37.045	144.017	35	4.6	---	PDE-Q
2011	0318230818.71	39.919	142.391	42	5.0	---	PDE-Q
2011	0318231948.91	35.893	141.769	35	5.0	---	PDE-Q
2011	0318233301.00	39.174	142.220	37	5.6	---	PDE-Q
2011	0318234438.11	37.338	143.943	40	4.8	---	PDE-Q
2011	0318234907.09	37.804	141.844	35	5.3	---	PDE-Q
2011	0318234936.45	36.941	140.615	40	5.4	---	PDE-Q
2011	0318235921.23	38.359	144.097	29	5.1	---	PDE-Q
2011	0319000129.35	38.219	142.677	54	4.7	---	PDE-Q
2011	0319001634.12	39.890	143.387	36	4.9	---	PDE-Q
2011	0319001922.76	39.634	142.534	66	4.8	---	PDE-Q
2011	0319002354.62	36.305	140.979	43	4.4	---	PDE-Q
2011	0319004519.93	37.936	141.962	60	4.5	---	PDE-Q
2011	0319005712.76	36.860	141.128	65	4.9	---	PDE-Q
2011	0319010637.88	38.768	144.009	26	4.8	---	PDE-Q
2011	0319012245.02	39.689	142.949	15	5.9	---	PDE-Q
2011	0319012715.03	39.566	142.426	21	5.6	---	PDE-Q
2011	0319013947.24	40.028	142.346	13	4.9	---	PDE-Q
2011	0319020739.71	36.938	143.443	35	4.6	---	PDE-Q
2011	0319021133.31	36.849	143.334	17	4.7	---	PDE-Q
2011	0319021737.15	40.011	144.477	35	4.6	---	PDE-Q
2011	0319022906.19	37.672	142.578	7	4.8	---	PDE-Q
2011	0319023145.48	38.174	144.816	6	4.8	---	PDE-Q

2011	0319025140.08	36.261	141.690	41	4.7	---	PDE-Q
2011	0319025556.60	37.695	141.562	37	5.1	---	PDE-Q
2011	0319030431.71	37.600	144.213	15	5.1	---	PDE-Q
2011	0319042512.92	36.019	142.498	28	4.6	---	PDE-Q
2011	0319045416.99	38.653	144.054	35	4.7	---	PDE-Q
2011	0319050205.23	37.596	142.156	26	4.7	---	PDE-Q
2011	0319052445.61	36.385	141.927	36	4.9	---	PDE-Q
2011	0319053203.69	37.600	143.720	11	4.9	---	PDE-Q
2011	0319060150.10	38.081	141.941	39	4.9	---	PDE-Q
2011	0319060403.47	38.429	144.623	23	5.2	---	PDE-Q
2011	0319061544.12	38.345	144.712	29	4.9	---	PDE-Q
2011	0319064308.54	36.250	141.035	39	5.0	---	PDE-Q
2011	0319065307.64	39.924	142.997	34	5.2	---	PDE-Q
2011	0319071820.96	36.313	142.107	6	5.0	---	PDE-Q
2011	0319073233.80	36.281	141.269	49	5.0	---	PDE-Q
2011	0319074114.01	37.874	142.888	40	5.1	---	PDE-Q
2011	0319080225.54	38.974	142.409	40	5.0	---	PDE-Q
2011	0319082515.40	36.849	142.021	52	4.9	---	PDE-Q
2011	0319082821.93	37.672	144.312	10	4.9	---	PDE-Q
2011	0319083144.44	35.106	141.110	42	4.9	---	PDE-Q
2011	0319083938.46	37.332	143.052	48	4.8	---	PDE-Q
2011	0319092257.73	37.752	143.792	35	4.4	---	PDE-Q
2011	0319092626.39	36.710	142.796	35	4.8	---	PDE-Q
2011	0319093229.64	37.388	144.680	27	4.9	---	PDE-Q
2011	0319094549.86	37.287	143.787	27	4.6	---	PDE-Q
2011	0319095648.99	36.792	140.300	13	5.8	---	PDE-Q
2011	0319101538.95	36.763	140.738	35	4.7	---	PDE-Q
2011	0319102120.45	38.277	143.521	10	4.7	---	PDE-Q
2011	0319104032.05	38.729	142.371	35	4.7	---	PDE-Q
2011	0319104509.62	35.699	143.475	35	4.9	---	PDE-Q
2011	0319105110.29	39.751	143.390	40	4.7	---	PDE-Q
2011	0319105604.99	38.261	144.523	24	4.8	---	PDE-Q
2011	0319105907.53	36.359	143.182	25	5.0	---	PDE-Q
2011	0319110250.20	38.040	143.162	23	4.9	---	PDE-Q
2011	0319111556.18	39.934	144.359	26	5.1	---	PDE-Q
2011	0319111743.21	36.855	140.452	35	4.7	---	PDE-Q
2011	0319111820.00	36.370	142.520	33	5.0	---	MOS
2011	0319113033.28	39.400	144.322	24	5.0	---	PDE-Q
2011	0319115154.64	37.116	143.756	35	5.1	---	PDE-Q
2011	0319115335.87	36.999	144.187	35	4.8	---	PDE-Q
2011	0319121631.88	37.282	143.224	24	4.9	---	PDE-Q

2011	0319121712.17	37.266	143.203	35	4.8	---	PDE-Q
2011	0319123239.96	39.846	144.498	15	4.6	---	PDE-Q
2011	0319130849.66	37.136	144.164	35	4.4	---	PDE-Q
2011	0319130945.31	39.827	144.414	35	4.6	---	PDE-Q
2011	0319131435.75	39.908	144.443	42	5.0	---	PDE-Q
2011	0319133538.69	37.099	142.708	35	4.7	---	PDE-Q
2011	0319142004.51	37.538	142.047	45	4.8	---	PDE-Q
2011	0319142431.82	38.281	144.538	35	4.7	---	PDE-Q
2011	0319145734.65	38.740	143.944	35	4.5	---	PDE-Q
2011	0319152330.69	37.123	144.171	35	4.5	---	PDE-Q
2011	0319152642.24	37.594	141.523	35	4.6	---	PDE-Q
2011	0319153610.01	39.612	144.404	35	4.6	---	PDE-Q
2011	0319161717.86	37.530	143.039	35	4.4	---	PDE-Q
2011	0319162846.62	39.882	142.372	71	4.6	---	PDE-Q
2011	0319163823.02	36.634	140.487	56	4.7	---	PDE-Q
2011	0319170409.82	39.245	142.220	66	5.1	---	PDE-Q
2011	0319180926.37	38.490	144.826	35	4.8	---	PDE-Q
2011	0319181042.31	39.315	143.200	72	4.9	---	PDE-Q
2011	0319184211.60	38.558	142.354	25	5.2	---	PDE-Q
2011	0319184842.84	37.550	144.001	35	4.9	---	PDE-Q
2011	0319190012.50	37.725	144.238	25	5.1	---	PDE-Q
2011	0319192655.79	38.471	144.930	26	4.9	---	PDE-Q
2011	0319200407.46	38.592	143.934	43	4.7	---	PDE-Q
2011	0319200623.71	36.859	141.036	53	5.0	---	PDE-Q
2011	0319204828.54	37.724	141.694	60	5.0	---	PDE-Q
2011	0319212009.00	38.500	142.630	33	4.9	---	MOS
2011	0319212238.18	38.511	142.383	57	4.6	---	PDE-Q
2011	0319220649.56	37.623	144.317	41	5.1	---	PDE-Q
2011	0319222359.30	37.211	144.272	25	4.4	---	PDE-Q
2011	0319223252.47	37.095	144.228	35	4.6	---	PDE-Q
2011	0319223715.69	38.198	142.179	58	4.9	---	PDE-Q
2011	0319231813.84	36.279	142.213	35	4.5	---	PDE-Q
2011	0319232045.96	36.658	143.723	35	4.7	---	PDE-Q
2011	0319232651.58	37.192	142.045	28	5.1	---	PDE-Q
2011	0319233318.94	38.197	144.707	13	4.6	---	PDE-Q
2011	0319233713.69	38.698	141.756	60	5.2	---	PDE-Q
2011	0319235726.78	35.527	141.977	46	4.7	---	PDE-Q
2011	0320001318.87	38.083	142.934	40	4.4	---	PDE-Q
2011	0320001925.93	37.153	143.566	35	4.4	---	PDE-Q
2011	0320005204.13	38.598	144.066	27	4.6	---	PDE-Q
2011	0320005848.36	38.283	141.930	76	4.5	---	PDE-Q

2011	0320010112.26	39.747	141.712	38	4.8	---	PDE-Q
2011	0320010529.50	39.321	142.178	30	4.9	---	PDE-Q
2011	0320010943.74	39.140	142.392	28	5.4	---	PDE-Q
2011	0320011853.43	38.714	144.199	22	4.9	---	PDE-Q
2011	0320012444.80	37.350	141.710	39	5.3	---	PDE-Q
2011	0320013044.93	36.955	141.000	21	5.4	---	PDE-Q
2011	0320013831.50	37.784	142.581	18	4.8	---	PDE-Q
2011	0320015141.10	36.083	141.990	35	4.7	---	PDE-Q
2011	0320021704.25	36.186	141.364	17	4.6	---	PDE-Q
2011	0320030459.26	36.720	140.597	32	4.7	---	PDE-Q
2011	0320030639.06	38.332	144.805	26	4.9	---	PDE-Q
2011	0320033831.28	35.031	140.545	24	4.7	---	PDE-Q
2011	0320040240.38	39.060	142.324	38	4.9	---	PDE-Q
2011	0320043802.45	36.205	143.267	24	4.9	---	PDE-Q
2011	0320044024.68	39.917	143.719	24	4.9	---	PDE-Q
2011	0320044236.47	39.455	142.666	30	4.9	---	PDE-Q
2011	0320050001.34	37.050	141.218	21	4.8	---	PDE-Q
2011	0320051557.13	37.565	143.919	10	4.7	---	PDE-Q
2011	0320052004.87	37.074	140.588	54	5.0	---	PDE-Q
2011	0320052358.49	38.373	142.034	43	4.9	---	PDE-Q
2011	0320055127.09	35.332	141.216	13	4.8	---	PDE-Q
2011	0320055530.48	37.738	141.360	52	5.5	---	PDE-Q
2011	0320055804.81	35.274	140.974	25	5.4	---	PDE-Q
2011	0320061640.10	37.246	142.274	35	4.9	---	PDE-Q
2011	0320062339.09	36.343	142.925	35	4.6	---	PDE-Q
2011	0320072259.52	39.012	142.629	44	4.9	---	PDE-Q
2011	0320072721.19	36.622	143.219	27	5.2	---	PDE-Q
2011	0320075630.25	36.213	141.760	29	5.3	---	PDE-Q
2011	0320081236.28	35.643	142.068	15	4.9	---	PDE-Q
2011	0320082337.27	36.262	141.764	21	5.1	---	PDE-Q
2011	0320082759.72	39.473	142.400	33	5.1	---	PDE-Q
2011	0320084201.32	37.193	142.489	9	4.9	---	PDE-Q
2011	0320094155.27	40.368	142.774	35	4.8	---	PDE-Q
2011	0320095003.55	37.774	141.778	39	4.9	---	PDE-Q
2011	0320103555.22	35.174	141.162	33	5.3	---	PDE-Q
2011	0320105830.26	37.283	143.931	30	5.1	---	PDE-Q
2011	0320110249.43	38.437	142.152	35	5.2	---	PDE-Q
2011	0320112607.92	36.543	143.369	10	4.9	---	PDE-Q
2011	0320114750.52	36.757	143.313	18	5.1	---	PDE-Q
2011	0320115302.71	36.849	144.060	33	4.9	---	PDE-Q
2011	0320120347.52	39.409	141.958	46	5.8	---	PDE-Q

2011	0320124330.35	37.382	141.472	33	5.1	---	PDE-Q
2011	0320125339.62	36.223	142.572	11	4.9	---	PDE-Q
2011	0320135535.21	36.647	142.166	35	4.6	---	PDE-Q
2011	0320141927.91	37.808	142.031	35	4.6	---	PDE-Q
2011	0320142558.75	37.453	145.211	13	4.9	---	PDE-Q
2011	0320144854.40	35.346	140.945	39	5.3	---	PDE-Q
2011	0320145448.71	35.285	141.077	45	5.1	---	PDE-Q
2011	0320150612.86	35.438	141.527	12	4.9	---	PDE-Q
2011	0320151353.23	36.338	143.348	23	5.3	---	PDE-Q
2011	0320151814.36	35.069	141.381	35	4.9	---	PDE-Q
2011	0320152105.03	34.972	141.411	27	4.8	---	PDE-Q
2011	0320152323.71	36.205	143.402	38	4.9	---	PDE-Q
2011	0320153006.73	36.353	143.475	6	4.9	---	PDE-Q
2011	0320153652.57	37.272	142.511	36	4.9	---	PDE-Q
2011	0320154011.92	36.977	142.460	35	4.7	---	PDE-Q
2011	0320154948.60	37.430	143.915	10	4.8	---	PDE-Q
2011	0320155122.99	36.392	143.352	32	5.2	---	PDE-Q
2011	0320155413.71	36.191	141.911	6	5.1	---	PDE-Q
2011	0320160509.10	39.068	143.163	20	5.2	---	PDE-Q
2011	0320164043.36	36.264	141.549	25	4.9	---	PDE-Q
2011	0320164438.50	37.136	143.480	5	4.9	---	PDE-Q
2011	0320164606.36	36.810	143.745	35	4.4	---	PDE-Q
2011	0320170857.78	37.152	143.845	35	5.2	---	PDE-Q
2011	0320173318.82	37.765	143.440	40	5.2	---	PDE-Q
2011	0320173500.44	37.839	143.408	35	4.9	---	PDE-Q
2011	0320173751.92	37.786	143.433	22	5.2	---	PDE-Q
2011	0320174224.65	38.961	141.951	57	4.8	---	PDE-Q
2011	0320184343.58	38.277	142.014	35	4.9	---	PDE-Q
2011	0320184627.81	36.253	142.006	35	4.6	---	PDE-Q
2011	0320190622.83	35.738	141.765	10	4.5	---	PDE-Q
2011	0320195421.32	37.276	140.914	34	5.0	---	PDE-Q
2011	0320200524.76	37.146	141.321	26	4.9	---	PDE-Q
2011	0320201412.91	39.950	144.347	35	4.8	---	PDE-Q
2011	0320201757.90	37.007	141.908	34	5.2	---	PDE-Q
2011	0320204400.00	36.100	141.000	30	4.8	---	JMA
2011	0320204730.06	36.730	141.946	26	5.1	---	PDE-Q
2011	0320221602.22	36.940	143.877	35	4.9	---	PDE-Q
2011	0320231359.61	40.163	143.725	17	4.8	---	PDE-Q
2011	0320233734.09	36.717	142.080	42	4.6	---	PDE-Q
2011	0320234317.27	37.206	141.044	53	4.7	---	PDE-Q
2011	0321000026.84	36.583	142.017	40	4.7	---	PDE-Q

2011	0321002616.33	40.011	143.394	35	4.8	---	PDE-Q
2011	0321011348.37	37.688	144.648	19	4.9	---	PDE-Q
2011	0321013038.26	38.180	142.698	28	4.7	---	PDE-Q
2011	0321013851.71	38.574	144.118	35	4.9	---	PDE-Q
2011	0321014551.26	37.022	140.601	36	4.6	---	PDE-Q
2011	0321023720.39	40.243	143.665	17	5.1	---	PDE-Q
2011	0321025601.00	37.450	142.720	33	5.0	---	MOS
2011	0321030431.07	38.616	144.141	10	4.4	---	PDE-Q
2011	0321031410.05	38.916	142.029	60	5.0	---	PDE-Q
2011	0321031737.06	38.573	144.165	10	4.9	---	PDE-Q
2011	0321050803.91	36.182	141.613	18	5.4	---	PDE-Q
2011	0321053116.01	36.699	141.818	35	4.5	---	PDE-Q
2011	0321055412.82	36.205	142.098	37	5.4	---	PDE-Q
2011	0321060904.27	38.238	144.234	25	4.6	---	PDE-Q
2011	0321061601.29	38.294	144.231	10	4.8	---	PDE-Q
2011	0321071430.32	36.248	143.044	10	4.9	---	PDE-Q
2011	0321072515.17	36.235	142.928	18	4.5	---	PDE-Q
2011	0321080623.60	36.479	141.541	31	5.2	---	PDE-Q
2011	0321080926.26	39.195	142.625	49	4.9	---	PDE-Q
2011	0321084808.91	36.462	141.557	35	4.6	---	PDE-Q
2011	0321092416.70	37.919	142.631	10	4.9	---	PDE-Q
2011	0321102715.84	36.814	140.454	39	4.7	---	PDE-Q
2011	0321104313.22	38.057	144.576	24	5.3	---	PDE-Q
2011	0321123736.52	37.457	142.369	27	5.3	---	PDE-Q
2011	0321124652.03	36.027	142.369	35	4.7	---	PDE-Q
2011	0321130109.20	35.991	142.394	8	5.1	---	PDE-Q
2011	0321133601.16	36.619	143.637	9	5.1	---	PDE-Q
2011	0321134412.41	36.130	142.113	35	4.7	---	PDE-Q
2011	0321134924.35	36.381	140.920	29	4.9	---	PDE-Q
2011	0321145353.16	36.740	140.497	22	4.9	---	PDE-Q
2011	0321145804.92	36.262	142.041	24	4.8	---	PDE-Q
2011	0321153914.45	36.434	143.889	35	4.9	---	PDE-Q
2011	0321164418.75	37.695	142.310	25	4.8	---	PDE-Q
2011	0321164657.23	37.727	142.257	19	5.3	---	PDE-Q
2011	0321173553.54	35.866	142.880	35	4.8	---	PDE-Q
2011	0321173815.80	37.794	144.502	2	4.8	---	PDE-Q
2011	0321180204.84	37.490	143.063	35	4.9	---	PDE-Q
2011	0321180209.03	37.877	144.558	28	4.8	---	PDE-Q
2011	0321184815.31	38.337	142.395	39	4.4	---	PDE-Q
2011	0321185529.95	37.216	142.394	20	4.7	---	PDE-Q
2011	0321190120.63	36.688	143.238	46	5.4	---	PDE-Q

2011	0321192427.00	39.730	143.480	33	5.1	---	MOS
2011	0321192600.00	36.700	140.700	10	4.8	---	JMA
2011	0321192651.90	36.743	140.422	43	4.9	---	PDE-Q
2011	0321192900.00	39.600	142.100	50	5.0	---	JMA
2011	0321193158.04	36.154	141.100	41	4.9	---	PDE-Q
2011	0321194145.70	36.511	141.857	34	4.7	---	PDE-Q
2011	0321195725.64	36.650	143.285	35	4.7	---	PDE-Q
2011	0321200526.36	36.698	141.948	40	4.7	---	PDE-Q
2011	0321204900.65	37.617	143.823	10	4.9	---	PDE-Q
2011	0321204913.94	37.620	143.799	18	4.9	---	PDE-Q
2011	0321211158.55	35.384	141.198	35	4.9	---	PDE-Q
2011	0321212313.00	37.770	143.860	33	5.1	---	MOS
2011	0321212400.00	36.700	141.000	50	4.9	---	JMA
2011	0321214027.97	37.705	143.801	35	4.7	---	PDE-Q
2011	0321214928.83	37.661	143.796	35	5.0	---	PDE-Q
2011	0321215446.40	37.676	143.122	20	4.8	---	PDE-Q
2011	0321215856.36	37.761	142.384	35	4.9	---	PDE-Q
2011	0321231340.69	37.677	142.404	35	4.7	---	PDE-Q
2011	0321232016.48	38.574	143.077	35	5.0	---	PDE-Q
2011	0321233505.09	36.711	143.277	35	4.6	---	PDE-Q
2011	0321234345.26	36.119	141.869	35	4.7	---	PDE-Q
2011	0322000520.48	37.525	143.879	35	4.8	---	PDE-Q
2011	0322001443.67	35.499	141.779	35	4.8	---	PDE-Q
2011	0322003300.00	36.500	140.900	50	4.7	---	JMA
2011	0322011346.78	36.069	141.815	32	5.4	---	PDE-Q
2011	0322011950.70	36.290	141.272	55	5.0	---	PDE-Q
2011	0322013750.85	36.495	142.507	14	4.8	---	PDE-Q
2011	0322021152.47	39.023	142.712	46	5.1	---	PDE-Q
2011	0322025346.68	39.238	142.371	35	4.8	---	PDE-Q
2011	0322033836.27	35.192	140.995	23	5.7	---	PDE-Q
2011	0322041210.89	36.516	142.493	35	4.9	---	PDE-Q
2011	0322042949.96	39.884	143.615	18	4.5	---	PDE-Q
2011	0322044417.61	35.246	141.197	12	5.0	---	PDE-Q
2011	0322055935.09	35.678	141.684	21	5.3	---	PDE-Q
2011	0322062831.94	36.703	142.389	41	5.2	---	PDE-Q
2011	0322070501.49	36.584	142.440	30	5.1	---	PDE-Q
2011	0322071847.39	37.257	143.974	24	6.4	---	PDE-Q
2011	0322073110.56	36.959	144.156	10	4.9	---	PDE-Q
2011	0322073335.18	35.393	141.844	44	5.1	---	PDE-Q
2011	0322073817.66	36.961	144.280	10	5.0	---	PDE-Q
2011	0322074128.26	36.014	141.415	41	5.0	---	PDE-Q

2011	0322074908.80	36.962	143.901	36	5.2	---	PDE-Q
2011	0322075251.86	36.966	143.979	29	4.9	---	PDE-Q
2011	0322080518.43	35.598	141.829	5	4.9	---	PDE-Q
2011	0322081253.66	37.078	143.881	12	5.0	---	PDE-Q
2011	0322083310.46	36.913	140.997	54	5.0	---	PDE-Q
2011	0322085459.00	35.221	141.034	41	4.9	---	PDE-Q
2011	0322091905.65	37.326	141.832	26	6.1	---	PDE-Q
2011	0322094430.00	39.852	143.418	17	6.3	---	PDE-Q
2011	0322095304.01	37.304	141.786	49	4.7	---	PDE-Q
2011	0322095815.82	36.123	141.623	41	4.9	---	PDE-Q
2011	0322100114.12	37.126	143.942	35	4.5	---	PDE-Q
2011	0322101900.91	40.344	142.531	21	5.2	---	PDE-Q
2011	0322102317.82	40.355	142.476	44	5.1	---	PDE-Q
2011	0322102528.40	36.284	142.572	35	4.5	---	PDE-Q
2011	0322104317.50	40.230	142.491	30	4.6	---	PDE-Q
2011	0322104624.28	37.094	144.082	35	4.6	---	PDE-Q
2011	0322105511.12	36.952	143.551	35	4.9	---	PDE-Q
2011	0322105647.86	37.269	141.874	44	5.1	---	PDE-Q
2011	0322110825.16	35.289	141.343	39	4.7	---	PDE-Q
2011	0322112138.74	39.790	143.139	25	5.5	---	PDE-Q
2011	0322115837.26	36.487	141.922	35	4.8	---	PDE-Q
2011	0322120121.44	36.947	143.203	1	5.6	---	PDE-Q
2011	0322120407.63	36.256	141.408	34	5.7	---	PDE-Q
2011	0322121743.38	36.127	141.394	64	4.8	---	PDE-Q
2011	0322122339.28	36.451	144.502	34	4.9	---	PDE-Q
2011	0322124010.90	36.407	141.584	59	4.8	---	PDE-Q
2011	0322124244.99	36.776	143.118	47	4.9	---	PDE-Q
2011	0322124857.80	36.906	141.890	35	4.6	---	PDE-Q
2011	0322125626.71	37.050	143.992	36	5.5	---	PDE-Q
2011	0322130512.73	36.591	143.245	35	4.9	---	PDE-Q
2011	0322130603.87	39.414	143.729	19	4.9	---	PDE-Q
2011	0322132014.54	39.941	143.448	28	5.1	---	PDE-Q
2011	0322132054.33	39.945	143.534	21	5.2	---	PDE-Q
2011	0322132619.67	36.844	143.100	44	5.1	---	PDE-Q
2011	0322133810.29	39.928	143.781	21	5.0	---	PDE-Q
2011	0322134556.72	37.697	143.711	11	4.9	---	PDE-Q
2011	0322135050.99	35.791	141.534	15	5.8	---	PDE-Q
2011	0322135933.63	37.053	142.925	35	4.6	---	PDE-Q
2011	0322142410.13	37.439	141.669	49	4.9	---	PDE-Q
2011	0322143132.91	38.154	142.578	33	4.9	---	PDE-Q
2011	0322144342.61	38.485	144.681	15	4.9	---	PDE-Q

2011	0322150346.43	35.786	141.572	16	5.6	---	PDE-Q
2011	0322151223.89	38.361	141.783	55	5.1	---	PDE-Q
2011	0322151929.09	35.694	141.749	34	5.0	---	PDE-Q
2011	0322152415.46	36.322	141.172	10	4.6	---	PDE-Q
2011	0322154429.24	37.167	143.172	16	4.4	---	PDE-Q
2011	0322154926.38	39.171	142.301	22	5.5	---	PDE-Q
2011	0322155830.00	39.197	142.282	46	5.2	---	PDE-Q
2011	0322160550.84	35.757	141.591	41	5.4	---	PDE-Q
2011	0322161209.49	35.672	141.638	33	5.3	---	PDE-Q
2011	0322165636.30	39.110	143.288	35	4.8	---	PDE-Q
2011	0322173514.03	35.258	141.144	13	4.6	---	PDE-Q
2011	0322174636.00	35.298	141.005	25	5.0	---	PDE-Q
2011	0322174952.75	35.335	140.904	18	5.2	---	PDE-Q
2011	0322180302.62	36.715	140.471	10	4.8	---	PDE-Q
2011	0322181907.50	35.330	141.148	37	4.9	---	PDE-Q
2011	0322182116.99	37.158	141.935	35	4.6	---	PDE-Q
2011	0322182420.03	35.218	141.025	36	4.9	---	PDE-Q
2011	0322182542.70	35.294	140.974	35	4.9	---	PDE-Q
2011	0322184723.15	34.610	142.952	35	4.7	---	PDE-Q
2011	0322185012.21	37.646	141.594	57	4.9	---	PDE-Q
2011	0322185745.83	36.282	141.687	47	4.7	---	PDE-Q
2011	0322190714.23	35.569	141.845	35	4.5	---	PDE-Q
2011	0322190746.27	35.587	141.685	32	5.2	---	PDE-Q
2011	0322190957.97	36.274	141.522	17	5.2	---	PDE-Q
2011	0322192604.80	40.327	143.613	32	5.0	---	PDE-Q
2011	0322203443.50	39.738	143.321	24	4.9	---	PDE-Q
2011	0322205011.66	37.348	141.813	40	4.8	---	PDE-Q
2011	0322205216.71	36.237	143.263	50	4.9	---	PDE-Q
2011	0322205328.29	35.182	140.921	10	4.9	---	PDE-Q
2011	0322213214.64	37.842	143.220	35	4.9	---	PDE-Q
2011	0322213435.89	35.827	142.189	35	5.0	---	PDE-Q
2011	0322215538.70	40.315	142.463	22	5.1	---	PDE-Q
2011	0322221229.29	37.109	140.673	1	5.6	---	PDE-Q
2011	0322221357.20	37.014	140.679	40	5.7	---	PDE-Q
2011	0322223039.66	38.009	142.636	35	4.9	---	PDE-Q
2011	0322223500.72	37.111	140.580	37	5.7	---	PDE-Q
2011	0322223632.79	37.078	140.561	16	5.4	---	PDE-Q
2011	0322225138.47	36.924	142.333	30	5.2	---	PDE-Q
2011	0322225331.26	37.062	140.620	28	5.2	---	PDE-Q
2011	0322230356.44	36.999	140.603	35	4.8	---	PDE-Q
2011	0322234653.00	35.480	141.040	33	5.1	---	MOS

2011	0323000643.30	39.276	142.315	35	5.4	---	PDE-Q
2011	0323005502.56	36.842	144.146	25	4.7	---	PDE-Q
2011	0323005731.32	36.248	142.483	35	4.9	---	PDE-Q
2011	0323030020.54	37.645	142.740	30	4.9	---	PDE-Q
2011	0323032407.09	37.958	144.208	35	5.1	---	PDE-Q
2011	0323034143.79	35.897	143.507	10	4.8	---	PDE-Q
2011	0323034314.16	35.763	142.511	35	4.7	---	PDE-Q
2011	0323041312.71	39.728	142.297	61	5.1	---	PDE-Q
2011	0323041746.03	37.084	142.171	28	4.5	---	PDE-Q
2011	0323041907.25	35.165	140.935	41	5.0	---	PDE-Q
2011	0323044017.40	36.200	141.031	39	4.9	---	PDE-Q
2011	0323050315.58	35.121	141.050	53	4.9	---	PDE-Q
2011	0323063151.15	37.338	143.718	36	5.1	---	PDE-Q
2011	0323071237.22	36.683	143.642	34	4.9	---	PDE-Q
2011	0323071634.61	36.708	140.879	63	4.5	---	PDE-Q
2011	0323075353.23	37.065	143.875	35	4.6	---	PDE-Q
2011	0323083406.43	36.690	141.899	42	4.7	---	PDE-Q
2011	0323093556.81	39.653	143.272	24	5.3	---	PDE-Q
2011	0323094634.10	37.485	143.730	10	4.6	---	PDE-Q
2011	0323095228.94	39.630	143.476	36	4.9	---	PDE-Q
2011	0323095526.01	37.149	140.644	50	5.0	---	PDE-Q
2011	0323104335.43	36.659	141.525	28	5.3	---	PDE-Q
2011	0323120456.62	37.549	144.508	35	4.7	---	PDE-Q
2011	0323121905.06	35.128	140.907	54	5.0	---	PDE-Q
2011	0323122852.54	36.634	141.384	61	4.5	---	PDE-Q
2011	0323134218.96	37.711	143.663	20	4.8	---	PDE-Q
2011	0323134550.94	36.805	144.093	35	4.4	---	PDE-Q
2011	0323135628.01	37.647	142.786	36	5.3	---	PDE-Q
2011	0323140602.19	37.732	144.351	28	4.9	---	PDE-Q
2011	0323142607.15	37.562	143.800	35	4.5	---	PDE-Q
2011	0323143230.15	35.726	141.855	53	4.9	---	PDE-Q
2011	0323144750.76	37.093	143.493	35	4.6	---	PDE-Q
2011	0323144800.88	37.332	142.848	35	5.1	---	PDE-Q
2011	0323152131.72	39.041	142.520	44	4.6	---	PDE-Q
2011	0323154402.84	36.306	143.466	18	4.9	---	PDE-Q
2011	0323154642.24	34.852	142.015	35	4.9	---	PDE-Q
2011	0323160336.60	39.771	143.465	28	5.1	---	PDE-Q
2011	0323160746.85	35.203	141.183	22	4.9	---	PDE-Q
2011	0323165424.34	36.064	141.051	35	4.7	---	PDE-Q
2011	0323170205.73	39.624	143.192	43	5.1	---	PDE-Q
2011	0323171907.42	39.391	143.866	13	4.9	---	PDE-Q

2011	0323173517.40	37.705	141.774	16	5.0	---	PDE-Q
2011	0323180302.10	36.019	143.385	35	4.9	---	PDE-Q
2011	0323181659.96	38.296	143.515	35	4.9	---	PDE-Q
2011	0323183047.00	39.760	143.420	33	5.1	---	MOS
2011	0323183938.00	39.690	143.370	33	5.1	---	MOS
2011	0323194246.82	36.630	142.087	17	4.8	---	PDE-Q
2011	0323194600.00	36.700	140.700	0	4.4	---	JMA
2011	0323202847.25	35.876	141.147	35	4.8	---	PDE-Q
2011	0323203257.63	36.186	140.836	41	5.2	---	PDE-Q
2011	0323204315.33	35.927	141.145	35	5.3	---	PDE-Q
2011	0323205819.00	38.460	142.290	33	5.0	---	MOS
2011	0323212814.22	36.114	142.661	35	5.2	---	PDE-Q
2011	0323212821.95	36.585	141.791	48	5.0	---	PDE-Q
2011	0323213001.00	36.450	142.930	33	5.1	---	MOS
2011	0323224919.45	39.597	143.432	24	4.8	---	PDE-Q
2011	0324003521.67	39.677	142.544	26	4.9	---	PDE-Q
2011	0324010533.27	36.417	142.710	20	4.6	---	PDE-Q
2011	0324011116.12	38.312	142.296	34	4.9	---	PDE-Q
2011	0324021323.28	35.896	141.736	35	4.5	---	PDE-Q
2011	0324023314.92	35.630	140.607	53	4.8	---	PDE-Q
2011	0324024938.47	38.051	142.425	35	4.7	---	PDE-Q
2011	0324025322.62	38.178	142.797	35	4.6	---	PDE-Q
2011	0324025326.92	34.631	141.339	35	4.7	---	PDE-Q
2011	0324034050.25	37.846	142.784	20	4.7	---	PDE-Q
2011	0324035809.54	38.604	142.796	41	5.5	---	PDE-Q
2011	0324041709.14	38.510	144.007	9	4.7	---	PDE-Q
2011	0324043036.39	37.373	143.784	22	5.2	---	PDE-Q
2011	0324043521.96	37.351	143.746	10	5.1	---	PDE-Q
2011	0324044844.06	38.224	144.432	23	4.9	---	PDE-Q
2011	0324045609.33	38.805	142.277	44	5.1	---	PDE-Q
2011	0324050342.45	36.988	140.329	26	4.9	---	PDE-Q
2011	0324052852.95	36.937	142.324	27	4.5	---	PDE-Q
2011	0324055238.38	36.831	142.223	35	4.7	---	PDE-Q
2011	0324060021.40	35.708	141.760	35	4.7	---	PDE-Q
2011	0324060314.67	40.403	143.631	27	5.0	---	PDE-Q
2011	0324065336.36	38.615	144.161	10	4.7	---	PDE-Q
2011	0324070355.99	36.164	141.734	35	5.3	---	PDE-Q
2011	0324072846.14	37.135	143.917	10	4.7	---	PDE-Q
2011	0324074001.56	37.392	142.588	28	4.8	---	PDE-Q
2011	0324082058.00	39.110	142.300	33	5.9	---	MOS
2011	0324083854.88	37.609	144.672	10	4.9	---	PDE-Q

2011	0324103753.75	38.657	143.317	31	5.1	---	PDE-Q
2011	0324104412.10	38.395	142.386	35	5.0	---	PDE-Q
2011	0324110502.63	37.403	141.872	35	4.5	---	PDE-Q
2011	0324114732.36	39.325	144.261	33	4.9	---	PDE-Q
2011	0324120641.48	39.106	144.276	35	5.1	---	PDE-Q
2011	0324122142.73	39.125	144.388	25	4.4	---	PDE-Q
2011	0324130233.32	37.881	144.045	33	5.0	---	PDE-Q
2011	0324132619.98	36.976	142.250	35	5.0	---	PDE-Q
2011	0324151726.99	37.598	142.718	35	5.0	---	PDE-Q
2011	0324155820.93	36.760	144.006	33	5.1	---	PDE-Q
2011	0324162130.71	37.248	144.201	35	5.0	---	PDE-Q
2011	0324164207.87	38.290	142.180	12	4.8	---	PDE-Q
2011	0324170831.00	36.810	140.630	33	5.1	---	MOS
2011	0324172740.36	36.176	142.618	35	4.5	---	PDE-Q
2011	0324174103.84	36.802	143.646	35	5.0	---	PDE-Q
2011	0324174319.60	36.177	142.625	35	4.9	---	PDE-Q
2011	0324181359.90	36.227	140.854	24	4.9	---	PDE-Q
2011	0324181646.35	36.885	141.151	39	4.8	---	PDE-Q
2011	0324181749.15	36.094	142.551	35	4.9	---	PDE-Q
2011	0324182909.47	37.073	143.986	35	4.9	---	PDE-Q
2011	0324191646.63	37.830	143.964	35	4.6	---	PDE-Q
2011	0324191717.51	38.029	143.568	16	5.4	---	PDE-Q
2011	0324192006.81	37.966	143.743	16	4.9	---	PDE-Q
2011	0324192204.65	37.951	143.662	34	5.2	---	PDE-Q
2011	0324193058.75	37.994	143.695	35	4.9	---	PDE-Q
2011	0324193156.28	37.949	143.787	35	4.9	---	PDE-Q
2011	0324194444.00	39.020	142.070	33	5.2	---	MOS
2011	0324202651.62	37.766	143.302	35	4.7	---	PDE-Q
2011	0324202859.07	36.957	143.806	2	4.9	---	PDE-Q
2011	0324222859.14	36.254	142.623	28	5.2	---	PDE-Q
2011	0324225541.30	37.630	143.367	36	5.1	---	PDE-Q
2011	0324230131.48	38.016	143.587	47	5.1	---	PDE-Q
2011	0324231223.76	36.812	140.400	47	4.5	---	PDE-Q
2011	0325000924.78	36.157	142.644	34	4.6	---	PDE-Q
2011	0325012056.82	37.366	143.281	35	4.7	---	PDE-Q
2011	0325013217.56	36.200	142.643	35	4.7	---	PDE-Q
2011	0325014254.97	37.941	143.600	25	4.7	---	PDE-Q
2011	0325025232.73	37.330	143.055	15	4.8	---	PDE-Q
2011	0325034204.01	36.432	142.003	5	4.6	---	PDE-Q
2011	0325041127.31	38.282	141.742	55	4.8	---	PDE-Q
2011	0325051349.63	37.955	143.073	33	5.1	---	PDE-Q

2011	0325052447.05	37.500	143.920	7	5.0	---	PDE-Q
2011	0325052939.64	36.197	142.613	23	5.1	---	PDE-Q
2011	0325053119.20	36.129	142.635	35	4.7	---	PDE-Q
2011	0325055732.63	36.350	143.100	50	4.9	---	PDE-Q
2011	0325063543.36	36.958	140.793	49	4.9	---	PDE-Q
2011	0325064428.46	38.550	143.413	24	5.1	---	PDE-Q
2011	0325064917.49	38.211	144.155	17	5.0	---	PDE-Q
2011	0325083700.00	37.100	140.800	0	4.3	---	JMA
2011	0325084537.22	36.269	142.536	28	5.2	---	PDE-Q
2011	0325091026.89	37.636	144.394	10	4.5	---	PDE-Q
2011	0325093142.62	37.693	144.831	10	4.6	---	PDE-Q
2011	0325094345.00	37.820	144.100	33	5.5	---	MOS
2011	0325103045.63	36.953	144.555	10	4.7	---	PDE-Q
2011	0325111415.72	37.003	143.973	10	4.5	---	PDE-Q
2011	0325113624.75	38.763	141.942	39	6.2	---	PDE-Q
2011	0325123000.00	38.900	142.000	0	4.7	---	JMA
2011	0325124100.92	36.081	143.406	10	4.5	---	PDE-Q
2011	0325124312.94	37.754	143.825	33	5.3	---	PDE-Q
2011	0325141045.44	37.503	141.815	35	4.9	---	PDE-Q
2011	0325150115.42	36.197	142.644	28	5.3	---	PDE-Q
2011	0325153802.34	39.744	143.036	34	4.9	---	PDE-Q
2011	0325154604.91	36.626	141.183	48	5.0	---	PDE-Q
2011	0325161000.00	36.700	140.900	0	4.6	---	JMA
2011	0325161429.66	37.108	142.447	35	4.9	---	PDE-Q
2011	0325164442.54	36.007	141.662	35	4.7	---	PDE-Q
2011	0325173518.68	36.219	142.167	20	4.9	---	PDE-Q
2011	0325175959.90	38.331	144.420	24	4.9	---	PDE-Q
2011	0325183620.84	35.718	142.066	35	4.7	---	PDE-Q
2011	0325191127.55	36.178	142.681	35	4.7	---	PDE-Q
2011	0325193016.13	38.561	142.107	54	4.8	---	PDE-Q
2011	0325202725.94	36.411	142.632	35	5.0	---	PDE-Q
2011	0325203751.13	38.179	143.641	35	4.8	---	PDE-Q
2011	0325205200.00	35.900	141.000	0	4.7	---	JMA
2011	0325213708.39	37.372	141.957	26	4.7	---	PDE-Q
2011	0325213906.88	37.429	142.315	37	4.7	---	PDE-Q
2011	0325223845.39	36.575	144.089	35	4.5	---	PDE-Q
2011	0325224955.03	39.517	143.506	16	4.8	---	PDE-Q
2011	0325232938.85	37.947	143.970	35	4.4	---	PDE-Q
2011	0325235000.00	39.100	142.300	0	4.8	---	JMA
2011	0326001152.22	35.240	141.147	62	4.7	---	PDE-Q
2011	0326010613.08	38.712	144.518	16	4.8	---	PDE-Q

2011	0326011332.84	36.788	144.463	29	4.9	---	PDE-Q
2011	0326013439.81	37.681	143.039	20	4.9	---	PDE-Q
2011	0326014214.16	37.959	143.958	7	5.1	---	PDE-Q
2011	0326014346.78	37.883	144.076	22	4.9	---	PDE-Q
2011	0326022934.29	37.528	143.609	35	4.5	---	PDE-Q
2011	0326040353.49	37.572	142.596	43	4.9	---	PDE-Q
2011	0326053704.17	37.296	142.444	35	5.0	---	PDE-Q
2011	0326060128.92	36.747	143.603	10	5.1	---	PDE-Q
2011	0326071934.42	36.322	141.233	27	5.0	---	PDE-Q
2011	0326072944.20	36.895	143.482	33	4.9	---	PDE-Q
2011	0326075237.66	36.463	140.833	50	4.9	---	PDE-Q
2011	0326075639.14	36.619	140.302	35	4.9	---	PDE-Q
2011	0326080223.69	37.365	142.503	38	5.1	---	PDE-Q
2011	0326081937.88	36.931	143.347	21	5.2	---	PDE-Q
2011	0326094242.63	36.274	142.946	35	4.9	---	PDE-Q
2011	0326101831.00	38.570	141.850	33	5.3	---	MOS
2011	0326102344.10	37.583	141.744	36	5.0	---	PDE-Q
2011	0326103000.00	36.500	141.000	0	4.7	---	JMA
2011	0326103549.63	37.528	141.768	36	4.9	---	PDE-Q
2011	0326104226.96	36.223	141.379	38	5.1	---	PDE-Q
2011	0326110232.80	37.157	141.988	27	4.9	---	PDE-Q
2011	0326113215.70	37.319	143.312	35	4.6	---	PDE-Q
2011	0326115954.74	37.688	142.373	36	4.6	---	PDE-Q
2011	0326125253.44	36.963	143.279	38	5.4	---	PDE-Q
2011	0326131700.04	37.106	143.052	37	5.0	---	PDE-Q
2011	0326133300.00	37.100	140.800	0	4.5	---	JMA
2011	0326141100.00	36.700	140.700	0	4.8	---	JMA
2011	0326152920.60	39.082	142.937	40	5.0	---	PDE-Q
2011	0326160652.52	36.340	141.020	42	4.9	---	PDE-Q
2011	0326162239.62	37.687	142.407	48	5.0	---	PDE-Q
2011	0326162840.00	37.658	142.321	44	5.0	---	PDE-Q
2011	0326164306.05	37.314	142.366	35	4.9	---	PDE-Q
2011	0326173217.76	35.725	140.982	49	5.0	---	PDE-Q
2011	0326173343.82	37.590	143.437	44	5.2	---	PDE-Q
2011	0326181718.28	36.299	142.436	68	4.9	---	PDE-Q
2011	0326182621.20	36.707	143.941	11	4.9	---	PDE-Q
2011	0326184954.03	37.124	140.774	43	4.8	---	PDE-Q
2011	0326192204.73	36.803	141.612	34	5.0	---	PDE-Q
2011	0326194158.25	37.969	142.526	40	4.7	---	PDE-Q
2011	0326200556.72	36.244	142.030	37	4.9	---	PDE-Q
2011	0326202331.35	37.466	141.393	36	4.5	---	PDE-Q

2011	0326203600.00	37.100	140.900	0	4.8	---	JMA
2011	0326211611.20	40.122	143.519	51	4.5	---	PDE-Q
2011	0326213142.07	38.186	144.463	15	4.7	---	PDE-Q
2011	0326224814.90	39.548	143.649	13	4.7	---	PDE-Q
2011	0327001305.91	36.591	144.689	7	4.7	---	PDE-Q
2011	0327002353.09	36.920	144.469	38	5.0	---	PDE-Q
2011	0327003442.72	37.076	143.658	35	4.6	---	PDE-Q
2011	0327003739.61	37.084	144.514	35	4.6	---	PDE-Q
2011	0327013805.41	38.705	143.354	23	4.7	---	PDE-Q
2011	0327015933.73	37.040	143.713	23	4.7	---	PDE-Q
2011	0327020804.49	38.732	144.527	7	4.5	---	PDE-Q
2011	0327025244.04	37.180	142.764	35	4.6	---	PDE-Q
2011	0327030502.83	39.697	143.308	19	4.7	---	PDE-Q
2011	0327032017.71	40.188	142.260	35	5.3	---	PDE-Q
2011	0327034000.54	37.497	144.117	21	4.7	---	PDE-Q
2011	0327044322.41	38.475	143.278	24	4.6	---	PDE-Q
2011	0327050326.85	36.721	142.939	35	4.9	---	PDE-Q
2011	0327050419.72	38.212	143.427	35	4.7	---	PDE-Q
2011	0327050754.70	40.106	141.819	51	5.1	---	PDE-Q
2011	0327060037.82	39.856	143.285	42	4.8	---	PDE-Q
2011	0327060843.29	37.117	144.066	35	4.9	---	PDE-Q
2011	0327071005.44	38.082	144.161	27	4.9	---	PDE-Q
2011	0327090334.98	37.754	143.364	37	5.0	---	PDE-Q
2011	0327091306.37	37.782	143.340	33	5.1	---	PDE-Q
2011	0327102323.27	35.234	141.029	43	5.2	---	PDE-Q
2011	0327110827.85	37.288	141.375	72	5.0	---	PDE-Q
2011	0327121822.79	39.895	143.128	38	4.9	---	PDE-Q
2011	0327124353.82	39.332	143.010	32	5.0	---	PDE-Q
2011	0327133739.26	37.211	143.886	35	4.7	---	PDE-Q
2011	0327134135.69	38.940	142.320	49	5.3	---	PDE-Q
2011	0327144427.61	38.058	144.663	8	5.0	---	PDE-Q
2011	0327144549.45	37.108	144.049	7	5.1	---	PDE-Q
2011	0327151746.87	37.697	141.731	20	5.1	---	PDE-Q
2011	0327162036.15	37.468	144.120	35	4.8	---	PDE-Q
2011	0327165415.98	37.169	143.788	7	4.9	---	PDE-Q
2011	0327175421.50	36.601	142.311	35	4.9	---	PDE-Q
2011	0327182123.50	36.612	142.274	35	4.4	---	PDE-Q
2011	0327191424.31	37.499	143.517	35	4.8	---	PDE-Q
2011	0327191435.76	38.038	142.004	19	4.9	---	PDE-Q
2011	0327205028.81	39.451	142.333	54	4.9	---	PDE-Q
2011	0327211144.00	36.900	140.920	33	5.0	---	MOS

2011	0327222358.60	38.402	142.102	17	6.2	---	PDE-Q
2011	0327224201.44	38.313	142.185	38	5.2	---	PDE-Q
2011	0327231645.49	37.126	144.064	35	4.6	---	PDE-Q
2011	0327232310.89	38.478	144.352	23	4.5	---	PDE-Q
2011	0327234011.81	37.592	142.534	35	4.5	---	PDE-Q
2011	0328011945.75	38.569	141.986	35	5.0	---	PDE-Q
2011	0328031936.65	39.539	142.358	54	4.9	---	PDE-Q
2011	0328052430.25	36.283	142.079	10	5.0	---	PDE-Q
2011	0328054455.79	36.372	141.720	19	5.2	---	PDE-Q
2011	0328061338.60	38.129	144.707	25	5.3	---	PDE-Q
2011	0328073243.02	38.797	142.422	35	4.9	---	PDE-Q
2011	0328073503.03	38.926	142.891	35	4.8	---	PDE-Q
2011	0328095057.90	36.263	141.812	35	4.9	---	PDE-Q
2011	0328104053.40	35.632	143.503	26	4.9	---	PDE-Q
2011	0328110800.00	36.700	140.600	0	4.7	---	JMA
2011	0328111844.98	38.818	142.913	23	5.4	---	PDE-Q
2011	0328113416.63	37.962	142.091	56	4.9	---	PDE-Q
2011	0328131743.41	38.178	143.722	35	4.9	---	PDE-Q
2011	0328132259.94	38.549	144.793	11	5.0	---	PDE-Q
2011	0328132733.00	38.960	142.860	33	5.0	---	MOS
2011	0328141400.00	39.300	142.300	0	4.8	---	JMA
2011	0328144500.15	39.609	142.733	42	4.9	---	PDE-Q
2011	0328145101.73	38.362	142.220	43	4.4	---	PDE-Q
2011	0328164142.28	36.624	141.176	54	4.7	---	PDE-Q
2011	0328173917.62	38.058	144.641	35	4.9	---	PDE-Q
2011	0328175343.31	38.247	144.112	35	4.9	---	PDE-Q
2011	0328180217.68	39.098	143.556	8	4.9	---	PDE-Q
2011	0328182238.42	36.447	141.313	35	4.7	---	PDE-Q
2011	0328183956.67	36.678	143.317	8	4.9	---	PDE-Q
2011	0328211716.67	38.489	143.513	35	4.8	---	PDE-Q
2011	0328214328.02	37.860	143.521	36	4.7	---	PDE-Q
2011	0328215527.62	37.826	143.655	35	4.9	---	PDE-Q
2011	0328230054.31	36.944	142.432	33	4.9	---	PDE-Q
2011	0328235133.20	39.300	141.975	72	5.0	---	PDE-Q
2011	0329010923.37	38.061	144.815	10	4.6	---	PDE-Q
2011	0329014953.81	36.374	143.908	10	4.7	---	PDE-Q
2011	0329033225.48	39.927	143.388	39	5.0	---	PDE-Q
2011	0329042458.88	37.635	144.009	10	4.6	---	PDE-Q
2011	0329070459.98	37.530	141.201	42	5.0	---	PDE-Q
2011	0329070656.45	39.388	142.609	46	4.6	---	PDE-Q
2011	0329092446.40	38.306	144.598	10	4.9	---	PDE-Q

2011	0329092904.88	37.747	143.700	10	4.5	---	PDE-Q
2011	0329102311.56	37.138	144.087	10	4.8	---	PDE-Q
2011	0329105433.00	37.417	142.270	14	6.1	---	PDE-Q
2011	0329114033.93	37.384	142.589	35	4.9	---	PDE-Q
2011	0329114329.97	38.021	144.276	35	4.7	---	PDE-Q
2011	0329122500.00	36.500	140.700	0	4.8	---	JMA
2011	0329125100.82	37.146	144.144	10	4.6	---	PDE-Q
2011	0329130850.36	37.962	144.340	35	4.7	---	PDE-Q
2011	0329131358.23	37.301	142.565	35	4.9	---	PDE-Q
2011	0329134211.20	37.444	142.907	35	4.8	---	PDE-Q
2011	0329134858.30	37.709	142.957	35	4.7	---	PDE-Q
2011	0329135536.17	37.155	142.572	45	5.0	---	PDE-Q
2011	0329141602.29	38.685	142.220	37	4.9	---	PDE-Q
2011	0329142231.72	38.158	143.157	33	4.9	---	PDE-Q
2011	0329150405.49	37.360	142.540	40	4.7	---	PDE-Q
2011	0329163547.92	39.592	143.466	16	5.5	---	PDE-Q
2011	0329164452.75	37.996	142.406	35	5.0	---	PDE-Q
2011	0329172420.27	37.243	144.011	29	5.0	---	PDE-Q
2011	0329173007.36	37.216	144.146	10	4.8	---	PDE-Q
2011	0329174552.25	36.459	140.984	63	4.9	---	PDE-Q
2011	0329175301.03	37.755	143.294	35	4.6	---	PDE-Q
2011	0329180928.61	36.688	142.060	14	4.9	---	PDE-Q
2011	0329181629.39	37.235	142.500	42	4.9	---	PDE-Q
2011	0329184428.29	37.724	142.609	38	4.9	---	PDE-Q
2011	0329185409.75	37.765	144.025	35	4.8	---	PDE-Q
2011	0329203050.90	40.102	142.446	45	5.1	---	PDE-Q
2011	0329204048.23	36.934	142.817	25	4.9	---	PDE-Q
2011	0329204455.27	38.168	144.602	25	4.9	---	PDE-Q
2011	0329210616.61	37.298	142.544	21	5.1	---	PDE-Q
2011	0329222110.53	37.869	144.061	35	4.8	---	PDE-Q
2011	0329222330.00	36.060	141.450	33	5.0	---	MOS
2011	0329223304.23	38.417	142.281	26	4.7	---	PDE-Q
2011	0329233650.60	37.699	142.586	12	5.3	---	PDE-Q
2011	0330025011.47	37.926	143.550	22	5.3	---	PDE-Q
2011	0330025431.23	37.099	142.190	38	4.8	---	PDE-Q
2011	0330035717.67	39.290	142.299	55	4.8	---	PDE-Q
2011	0330052955.54	36.135	142.433	30	5.8	---	PDE-Q
2011	0330060215.49	38.111	143.597	15	4.6	---	PDE-Q
2011	0330063749.36	36.394	142.235	39	5.0	---	PDE-Q
2011	0330071530.50	37.396	141.303	73	4.9	---	PDE-Q
2011	0330075842.87	38.312	142.224	56	4.9	---	PDE-Q

2011	0330085000.00	37.100	140.900	0	4.7	---	JMA
2011	0330085242.18	35.965	141.090	35	4.8	---	PDE-Q
2011	0330085546.02	37.418	142.693	35	4.4	---	PDE-Q
2011	0330094252.87	39.038	142.405	43	4.8	---	PDE-Q
2011	0330125138.79	35.387	141.029	26	5.1	---	PDE-Q
2011	0330130005.23	38.676	141.956	48	5.2	---	ZUR
2011	0330130942.70	37.564	144.167	10	4.9	---	PDE-Q
2011	0330131906.10	36.710	140.750	53	5.3	---	PDE-Q
2011	0330134602.26	38.515	144.860	10	4.8	---	PDE-Q
2011	0330135731.13	35.784	141.206	32	4.9	---	PDE-Q
2011	0330144528.08	35.748	141.019	21	5.0	---	PDE-Q
2011	0330144959.80	36.931	143.668	16	4.8	---	PDE-Q
2011	0330150108.76	37.245	141.603	48	4.9	---	PDE-Q
2011	0330161321.91	35.424	141.120	20	5.1	---	PDE-Q
2011	0330165314.49	37.683	142.090	35	4.9	---	PDE-Q
2011	0330175402.97	36.826	141.706	35	4.8	---	PDE-Q
2011	0330180102.28	37.222	144.342	35	4.9	---	PDE-Q
2011	0330181154.03	37.728	143.485	9	4.9	---	PDE-Q
2011	0330185806.38	39.194	144.298	7	4.9	---	PDE-Q
2011	0330192713.28	38.106	144.479	35	4.7	---	PDE-Q
2011	0330200024.61	36.031	141.094	34	4.9	---	PDE-Q
2011	0330210537.99	36.076	142.361	35	4.9	---	PDE-Q
2011	0330211924.80	35.685	143.466	25	5.1	---	PDE-Q
2011	0330214214.62	36.193	142.449	35	4.9	---	PDE-Q
2011	0330225042.78	38.988	142.494	10	5.0	---	PDE-Q
2011	0331002913.97	37.714	141.823	39	4.9	---	PDE-Q
2011	0331012846.27	38.155	142.159	44	4.9	---	PDE-Q
2011	0331023115.03	37.179	144.013	15	5.2	---	PDE-Q
2011	0331023347.00	37.207	144.054	14	4.5	---	PDE-Q
2011	0331032123.37	35.723	141.703	28	4.5	---	PDE-Q
2011	0331032537.66	36.800	141.699	30	5.0	---	PDE-Q
2011	0331044000.00	36.700	140.700	0	4.5	---	JMA
2011	0331050300.57	36.283	143.425	37	4.9	---	PDE-Q
2011	0331062729.19	39.256	142.905	27	5.0	---	PDE-Q
2011	0331070905.76	36.855	142.235	31	4.9	---	PDE-Q
2011	0331071530.22	38.954	142.017	40	6.1	---	PDE-Q
2011	0331072106.21	39.834	142.400	35	4.6	---	PDE-Q
2011	0331100438.00	40.430	143.330	33	5.1	---	MOS
2011	0331103032.30	38.454	142.127	43	4.9	---	PDE-Q
2011	0331113648.73	39.768	144.341	35	4.9	---	PDE-Q
2011	0331121427.98	37.681	142.440	35	4.4	---	PDE-Q

2011	0331131056.67	37.668	141.824	35	4.8	---	PDE-Q
2011	0331134300.13	38.314	142.290	35	4.9	---	PDE-Q
2011	0331142036.97	38.857	142.435	48	4.8	---	PDE-Q
2011	0331144237.36	38.418	142.566	45	4.9	---	PDE-Q
2011	0331150405.94	38.079	142.391	38	4.9	---	PDE-Q
2011	0331155504.62	37.132	144.165	35	4.7	---	PDE-Q
2011	0331164631.98	38.792	143.389	37	4.6	---	PDE-Q
2011	0331171007.99	36.615	142.627	35	4.8	---	PDE-Q
2011	0331172139.85	37.174	141.188	41	4.9	---	PDE-Q
2011	0331173126.98	36.988	143.935	35	5.0	---	PDE-Q
2011	0331183731.40	37.730	145.028	35	4.4	---	PDE-Q
2011	0331191724.83	38.017	144.246	5	4.8	---	PDE-Q
2011	0331193504.49	37.717	142.268	34	5.3	---	PDE-Q
2011	0331200727.09	40.096	143.273	59	4.9	---	PDE-Q
2011	0331203527.27	37.405	142.027	35	4.9	---	PDE-Q
2011	0331213428.45	37.683	144.252	35	4.9	---	PDE-Q
2011	0331221700.00	38.300	141.800	0	4.8	---	JMA
2011	0331222015.82	37.051	144.638	6	4.6	---	PDE-Q
2011	0331222549.34	37.850	143.365	35	5.1	---	PDE-Q
2011	0331232119.92	37.825	143.668	35	4.5	---	PDE-Q
2011	0401010102.27	36.018	141.169	47	4.5	---	PDE-Q
2011	0401010132.82	36.075	143.495	35	4.7	---	PDE-Q
2011	0401013525.82	36.838	144.684	35	4.8	---	PDE-Q
2011	0401014514.50	37.373	142.606	11	4.8	---	PDE-Q
2011	0401015429.04	37.046	142.254	43	4.6	---	PDE-Q
2011	0401025559.98	39.195	144.340	21	4.8	---	PDE-Q
2011	0401032320.33	37.627	143.341	33	5.2	---	PDE-Q
2011	0401033623.15	38.409	142.256	19	4.9	---	PDE-Q
2011	0401041419.16	38.411	142.199	35	4.9	---	PDE-Q
2011	0401060434.00	34.919	141.574	34	5.1	---	PDE-Q
2011	0401064254.51	37.912	142.660	35	4.5	---	PDE-Q
2011	0401064417.74	37.505	142.821	84	4.7	---	PDE-Q
2011	0401074439.64	38.234	142.216	58	4.8	---	PDE-Q
2011	0401094848.97	36.972	143.458	10	5.1	---	PDE-Q
2011	0401095735.02	36.967	143.408	23	5.1	---	PDE-Q
2011	0401115754.39	39.323	141.950	41	6.0	---	PDE-Q
2011	0401121512.05	36.804	140.607	26	5.2	---	PDE-Q
2011	0401130209.71	38.083	144.685	18	4.8	---	PDE-Q
2011	0401133024.88	38.400	142.356	10	4.9	---	PDE-Q
2011	0401141212.01	35.723	140.696	60	4.9	---	PDE-Q
2011	0401144435.12	36.235	141.502	31	5.5	---	PDE-Q

2011	0401152245.87	36.906	142.392	35	4.9	---	PDE-Q
2011	0401161325.56	34.621	141.237	35	5.0	---	PDE-Q
2011	0401170346.39	40.282	143.209	21	5.5	---	PDE-Q
2011	0401180101.52	38.299	142.266	45	4.9	---	PDE-Q
2011	0401183412.05	36.481	142.174	15	4.7	---	PDE-Q
2011	0401184527.77	36.890	141.428	55	4.8	---	PDE-Q
2011	0401195951.16	38.873	141.846	61	5.1	---	PDE-Q
2011	0401215900.08	38.916	141.898	31	4.5	---	PDE-Q
2011	0402000322.24	37.893	143.624	35	4.4	---	PDE-Q
2011	0402020205.88	36.404	142.305	23	4.8	---	PDE-Q
2011	0402032545.89	35.413	142.947	35	4.9	---	PDE-Q
2011	0402033432.84	37.299	144.313	35	4.8	---	PDE-Q
2011	0402040806.75	38.744	141.924	32	5.3	---	PDE-Q
2011	0402044704.79	36.055	143.399	14	4.9	---	PDE-Q
2011	0402050054.32	36.108	143.360	25	4.9	---	PDE-Q
2011	0402050803.18	36.397	141.041	43	4.9	---	PDE-Q
2011	0402052956.58	39.728	143.395	14	4.7	---	PDE-Q
2011	0402053302.80	39.481	140.983	34	5.0	---	PDE-Q
2011	0402055127.28	40.691	143.788	33	5.0	---	PDE-Q
2011	0402062355.30	35.952	140.806	35	4.7	---	PDE-Q
2011	0402063923.95	36.535	144.074	22	4.8	---	PDE-Q
2011	0402075457.44	37.218	144.060	14	4.6	---	PDE-Q
2011	0402082512.44	37.276	144.063	10	4.8	---	PDE-Q
2011	0402090512.50	36.974	140.402	26	4.9	---	PDE-Q
2011	0402094929.99	37.120	144.191	37	5.0	---	PDE-Q
2011	0402102258.34	36.819	140.483	28	4.8	---	PDE-Q
2011	0402112408.71	37.049	144.252	35	4.9	---	PDE-Q
2011	0402122519.39	36.229	141.667	35	5.0	---	PDE-Q
2011	0402134924.66	39.108	143.224	35	4.7	---	PDE-Q
2011	0402141805.82	37.985	143.587	35	4.6	---	PDE-Q
2011	0402143809.72	37.097	140.714	15	5.1	---	PDE-Q
2011	0402150250.25	39.103	143.043	34	5.0	---	PDE-Q
2011	0402152148.38	37.865	143.467	44	5.1	---	PDE-Q
2011	0402155306.80	37.386	143.571	35	4.9	---	PDE-Q
2011	0402162519.94	35.933	143.515	35	4.6	---	PDE-Q
2011	0402164328.99	36.819	140.846	39	4.8	---	PDE-Q
2011	0402175600.75	38.170	143.745	15	4.4	---	PDE-Q
2011	0402190621.64	39.758	143.991	32	4.9	---	PDE-Q
2011	0402215237.42	39.504	142.864	40	4.7	---	PDE-Q
2011	0402224458.47	37.458	142.883	35	4.6	---	PDE-Q
2011	0403015413.67	37.008	140.794	39	4.6	---	PDE-Q

2011	0403020403.62	36.353	142.387	42	4.7	---	PDE-Q
2011	0403022822.87	36.468	142.569	10	4.4	---	PDE-Q
2011	0403025136.53	38.132	143.231	44	4.5	---	PDE-Q
2011	0403030908.02	36.776	142.081	12	5.4	---	PDE-Q
2011	0403041425.89	39.866	142.664	29	4.6	---	PDE-Q
2011	0403043600.00	37.100	140.900	0	4.3	---	JMA
2011	0403052601.98	36.100	142.688	35	4.8	---	PDE-Q
2011	0403071711.06	35.404	143.148	25	5.0	---	PDE-Q
2011	0403071919.74	35.389	142.982	35	4.4	---	PDE-Q
2011	0403072112.83	35.399	143.082	10	4.9	---	PDE-Q
2011	0403072836.35	38.341	143.652	19	4.4	---	PDE-Q
2011	0403073846.47	37.635	141.452	59	5.5	---	PDE-Q
2011	0403075104.01	35.836	141.762	26	4.9	---	PDE-Q
2011	0403075305.40	37.667	141.644	35	4.9	---	PDE-Q
2011	0403084206.52	38.363	142.084	35	5.0	---	PDE-Q
2011	0403093554.24	37.191	141.437	50	4.7	---	PDE-Q
2011	0403104022.81	34.662	141.466	19	4.7	---	PDE-Q
2011	0403114016.62	36.940	143.933	10	4.9	---	PDE-Q
2011	0403115712.02	35.898	141.057	2	4.8	---	PDE-Q
2011	0403124319.27	35.451	142.937	23	5.1	---	PDE-Q
2011	0403125144.38	35.401	143.086	10	4.7	---	PDE-Q
2011	0403125741.41	37.276	141.298	59	5.1	---	PDE-Q
2011	0403130737.90	37.148	142.407	12	5.1	---	PDE-Q
2011	0403131808.04	36.762	142.142	36	5.3	---	PDE-Q
2011	0403141444.28	39.021	142.897	35	4.8	---	PDE-Q
2011	0403142000.00	36.700	140.700	0	4.5	---	JMA
2011	0403145326.47	37.881	142.094	49	5.2	---	PDE-Q
2011	0403145530.44	37.805	142.162	51	5.3	---	PDE-Q
2011	0403165038.94	38.172	143.635	9	5.0	---	PDE-Q
2011	0403165247.19	36.687	142.316	9	5.0	---	PDE-Q
2011	0403172444.57	36.832	143.545	35	4.8	---	PDE-Q
2011	0403190736.31	37.405	144.712	39	5.0	---	PDE-Q
2011	0403232442.59	36.656	144.713	10	4.8	---	PDE-Q
2011	0403235428.88	39.545	143.119	28	4.9	---	PDE-Q
2011	0404025439.82	37.697	144.841	35	4.8	---	PDE-Q
2011	0404035625.82	37.254	143.046	42	4.9	---	PDE-Q
2011	0404043006.06	35.286	141.112	15	4.9	---	PDE-Q
2011	0404044346.57	36.866	140.642	11	4.9	---	PDE-Q
2011	0404060213.43	37.095	144.129	36	5.0	---	PDE-Q
2011	0404061256.93	39.170	143.467	26	4.9	---	PDE-Q
2011	0404083824.29	37.801	142.583	32	5.2	---	PDE-Q

2011	0404084232.58	37.833	142.485	44	5.1	---	PDE-Q
2011	0404093910.00	37.140	142.130	33	5.3	---	MOS
2011	0404131131.19	39.276	142.688	39	5.2	---	PDE-Q
2011	0404134827.86	36.600	143.331	30	5.2	---	PDE-Q
2011	0404154706.33	37.528	141.601	61	4.9	---	PDE-Q
2011	0404174514.22	36.011	141.310	54	4.9	---	PDE-Q
2011	0404191400.00	38.800	142.000	0	4.6	---	JMA
2011	0404191751.37	37.737	144.116	13	4.9	---	PDE-Q
2011	0404195001.17	36.714	140.656	5	4.8	---	PDE-Q
2011	0404195316.77	35.863	140.834	54	4.7	---	PDE-Q
2011	0404204400.00	36.300	141.000	0	4.8	---	JMA
2011	0404213659.63	36.815	140.690	8	5.0	---	PDE-Q
2011	0404215256.44	38.254	141.853	53	4.2	---	PDE-Q
2011	0404224920.11	38.237	144.755	14	4.9	---	PDE-Q
2011	0405012911.60	39.759	141.939	43	5.0	---	PDE-Q
2011	0405022007.45	37.079	142.687	21	4.7	---	PDE-Q
2011	0405042529.77	38.894	142.402	52	5.0	---	PDE-Q
2011	0405044230.97	35.709	143.503	23	4.5	---	PDE-Q
2011	0405090853.59	36.590	140.402	37	4.8	---	PDE-Q
2011	0405132954.42	37.997	144.105	10	4.7	---	PDE-Q
2011	0405135101.32	36.371	142.343	23	4.8	---	PDE-Q
2011	0405142721.35	36.550	142.650	35	4.8	---	PDE-Q
2011	0405144143.42	36.256	140.582	14	5.0	---	PDE-Q
2011	0405150127.25	39.283	142.217	74	4.9	---	PDE-Q
2011	0405170957.55	36.612	142.443	35	4.9	---	PDE-Q
2011	0405191132.86	37.751	144.465	41	4.9	---	PDE-Q
2011	0405194340.08	39.815	142.114	48	5.0	---	PDE-Q
2011	0405194732.15	35.480	142.919	37	5.2	---	PDE-Q
2011	0405212400.00	36.300	141.000	0	4.9	---	JMA
2011	0405220159.78	38.407	142.042	16	5.2	---	PDE-Q
2011	0405225427.24	39.113	142.334	35	4.7	---	PDE-Q
2011	0405231345.57	37.983	143.551	35	4.9	---	PDE-Q
2011	0405233539.31	37.810	144.395	35	5.0	---	PDE-Q
2011	0405233833.79	37.715	144.432	10	4.9	---	PDE-Q
2011	0406001717.45	38.838	144.770	35	4.9	---	PDE-Q
2011	0406011224.36	37.527	143.630	19	4.5	---	PDE-Q
2011	0406012347.99	36.385	141.911	45	4.9	---	PDE-Q
2011	0406014804.06	36.393	142.604	35	4.7	---	PDE-Q
2011	0406015125.24	37.651	144.570	16	5.0	---	PDE-Q
2011	0406031303.01	36.714	142.071	42	5.0	---	PDE-Q
2011	0406031408.54	37.359	144.548	10	5.1	---	PDE-Q

2011	0406043046.41	37.804	144.791	10	4.6	---	PDE-Q
2011	0406055426.35	38.372	142.082	39	4.9	---	PDE-Q
2011	0406060702.02	37.336	142.394	34	5.2	---	PDE-Q
2011	0406100900.00	35.900	140.800	0	4.6	---	JMA
2011	0406114900.00	37.100	140.300	0	4.6	---	JMA
2011	0406125654.70	36.738	140.363	36	5.2	---	PDE-Q
2011	0406135452.20	37.654	141.424	60	5.3	---	PDE-Q
2011	0406160604.79	38.167	144.175	35	4.9	---	PDE-Q
2011	0406162541.36	38.345	142.137	46	5.0	---	PDE-Q
2011	0406192019.00	39.510	143.520	33	5.2	---	MOS
2011	0406214927.27	36.417	143.362	35	4.9	---	PDE-Q
2011	0407011257.66	35.607	141.881	35	4.9	---	PDE-Q
2011	0407024048.23	36.593	140.705	53	5.2	---	PDE-Q
2011	0407063424.46	37.928	142.661	39	4.9	---	PDE-Q
2011	0407064759.50	37.469	141.685	19	4.7	---	PDE-Q
2011	0407082506.15	37.611	141.890	31	4.9	---	PDE-Q
2011	0407105213.13	35.608	140.489	36	4.5	---	PDE-Q
2011	0407134628.08	36.560	141.084	35	4.9	---	PDE-Q
2011	0407143243.28	38.275	141.573	42	7.1	---	PDE-Q
2011	0407144725.00	38.181	141.829	82	5.0	---	PDE-Q
2011	0407144936.76	38.119	141.737	74	4.9	---	PDE-Q
2011	0407145316.52	38.326	141.850	80	4.6	---	PDE-Q
2011	0407150646.27	38.105	142.227	68	5.0	---	PDE-Q
2011	0407151451.45	37.295	141.753	35	4.9	---	PDE-Q
2011	0407152513.64	38.203	141.867	67	4.9	---	PDE-Q
2011	0407153128.20	38.301	142.119	67	4.9	---	PDE-Q
2011	0407191116.00	37.290	141.640	33	5.1	---	MOS
2011	0407204700.00	37.100	141.100	0	4.8	---	JMA
2011	0407211337.84	36.597	142.901	7	4.9	---	PDE-Q
2011	0407214249.99	38.437	142.234	35	4.6	---	PDE-Q
2011	0407220219.88	39.142	142.893	41	5.4	---	PDE-Q
2011	0407223303.38	38.747	142.593	35	4.5	---	PDE-Q
2011	0407230709.69	38.457	141.912	62	4.7	---	PDE-Q
2011	0407230748.33	35.486	140.965	28	4.9	---	PDE-Q
2011	0407233346.13	38.794	142.899	37	4.4	---	PDE-Q
2011	0407233931.13	38.818	141.870	89	4.7	---	PDE-Q
2011	0408002854.23	38.620	141.895	63	4.8	---	PDE-Q
2011	0408005624.47	36.678	142.135	43	5.0	---	PDE-Q
2011	0408013628.14	36.114	142.150	33	4.7	---	PDE-Q
2011	0408015841.81	36.221	141.874	28	4.7	---	PDE-Q
2011	0408022106.29	38.288	141.914	40	4.9	---	PDE-Q

2011	0408025720.55	36.788	141.028	40	5.1	---	PDE-Q
2011	0408034541.46	37.127	143.525	22	4.9	---	PDE-Q
2011	0408050906.30	37.821	143.629	35	5.0	---	PDE-Q
2011	0408061346.82	37.460	142.483	36	4.8	---	PDE-Q
2011	0408065805.93	36.847	144.076	10	4.6	---	PDE-Q
2011	0408070739.11	37.932	143.971	10	4.9	---	PDE-Q
2011	0408080226.78	35.377	143.049	10	4.7	---	PDE-Q
2011	0408090840.92	36.967	144.284	37	4.9	---	PDE-Q
2011	0408100419.50	37.927	143.951	33	5.0	---	PDE-Q
2011	0408132028.19	37.909	142.249	35	4.9	---	PDE-Q
2011	0408153900.00	36.900	141.100	0	4.7	---	JMA
2011	0408170035.29	38.468	142.548	35	4.5	---	PDE-Q
2011	0408185336.95	36.907	140.476	46	4.7	---	PDE-Q
2011	0408190659.20	37.220	141.625	30	5.0	---	PDE-Q
2011	0408191329.16	38.386	143.868	24	5.0	---	PDE-Q
2011	0408195925.34	36.293	143.639	25	4.8	---	PDE-Q
2011	0408200852.31	36.959	144.398	20	4.8	---	PDE-Q
2011	0408203817.65	38.282	142.746	50	4.4	---	PDE-Q
2011	0408213012.17	36.642	143.204	38	5.1	---	PDE-Q
2011	0408222946.09	36.045	141.823	35	4.4	---	PDE-Q
2011	0409012526.66	36.750	142.049	19	5.6	---	PDE-Q
2011	0409023104.44	39.896	143.168	29	5.1	---	PDE-Q
2011	0409023349.75	39.716	143.320	33	5.0	---	PDE-Q
2011	0409025259.70	36.926	141.877	32	4.6	---	PDE-Q
2011	0409025934.07	38.621	141.810	35	4.8	---	PDE-Q
2011	0409033300.00	36.500	141.000	0	4.7	---	JMA
2011	0409034221.15	37.120	142.729	20	4.8	---	PDE-Q
2011	0409043410.34	37.139	142.407	35	4.7	---	PDE-Q
2011	0409062942.54	38.918	142.652	39	4.9	---	PDE-Q
2011	0409072800.00	36.600	141.000	0	4.7	---	JMA
2011	0409080724.04	37.511	143.621	35	4.7	---	PDE-Q
2011	0409081704.55	37.902	142.724	26	4.6	---	PDE-Q
2011	0409085330.53	36.660	141.138	20	4.9	---	PDE-Q
2011	0409090100.00	36.900	140.700	0	4.7	---	JMA
2011	0409094221.89	38.280	141.701	65	5.5	---	PDE-Q
2011	0409100301.13	37.895	143.888	35	4.5	---	PDE-Q
2011	0409123749.19	37.310	142.489	47	4.8	---	PDE-Q
2011	0409225302.22	37.450	142.653	32	4.5	---	PDE-Q
2011	0410000056.77	35.761	141.515	47	5.1	---	PDE-Q
2011	0410000839.10	37.642	141.774	42	4.8	---	PDE-Q
2011	0410005048.82	36.709	140.633	72	4.9	---	PDE-Q

2011	0410020128.54	36.285	141.018	27	4.8	---	PDE-Q
2011	0410031325.85	37.466	142.209	40	4.8	---	PDE-Q
2011	0410041231.37	36.262	141.165	34	4.9	---	PDE-Q
2011	0410052331.11	36.975	143.334	41	5.0	---	PDE-Q
2011	0410055236.13	38.701	144.304	10	4.6	---	PDE-Q
2011	0410063649.35	38.475	144.740	34	4.7	---	PDE-Q
2011	0410075603.51	36.299	142.571	35	4.8	---	PDE-Q
2011	0410085200.00	37.100	140.800	0	4.5	---	JMA
2011	0410103033.39	36.358	142.462	37	4.6	---	PDE-Q
2011	0410112219.96	37.112	140.632	35	4.8	---	PDE-Q
2011	0410120154.74	36.617	141.869	43	5.0	---	PDE-Q
2011	0410150702.91	38.272	141.833	39	4.9	---	PDE-Q
2011	0410162138.71	38.331	141.805	57	4.9	---	PDE-Q
2011	0410163401.02	36.354	141.179	29	4.9	---	PDE-Q
2011	0410174452.93	37.159	141.492	26	4.6	---	PDE-Q
2011	0410192352.00	39.700	142.310	33	5.1	---	MOS
2011	0410202000.00	36.400	141.200	0	4.7	---	JMA
2011	0410213555.94	36.807	141.046	62	5.1	---	PDE-Q
2011	0411020000.00	36.700	140.700	0	4.5	---	JMA
2011	0411022635.50	37.738	142.408	22	4.8	---	PDE-Q
2011	0411042853.57	40.157	143.513	23	4.8	---	PDE-Q
2011	0411045146.93	37.503	141.216	41	5.2	---	PDE-Q
2011	0411081613.25	37.007	140.477	13	6.6	---	CSEM
2011	0411082631.29	37.103	140.446	15	5.4	---	PDE-Q
2011	0411083354.20	36.990	140.263	25	5.0	---	PDE-Q
2011	0411085804.32	37.013	140.358	17	5.3	---	PDE-Q
2011	0411090521.77	37.041	140.566	30	5.1	---	PDE-Q
2011	0411091234.04	36.906	140.440	25	4.6	---	PDE-Q
2011	0411091712.84	37.744	142.583	21	5.1	---	PDE-Q
2011	0411092300.00	36.900	141.000	0	4.7	---	JMA
2011	0411093035.32	37.050	140.498	12	4.6	---	PDE-Q
2011	0411093500.00	37.000	140.700	0	5.0	---	JMA
2011	0411093622.10	36.914	140.393	15	4.7	---	PDE-Q
2011	0411094800.00	37.000	140.700	0	4.9	---	JMA
2011	0411100006.00	36.901	140.696	16	4.7	---	PDE-Q
2011	0411100500.00	37.100	140.700	0	4.7	---	JMA
2011	0411102500.00	37.000	140.700	0	4.8	---	JMA
2011	0411103100.00	36.900	140.800	0	4.7	---	JMA
2011	0411105900.00	36.900	140.900	0	4.9	---	JMA
2011	0411112300.00	36.700	140.700	0	4.4	---	JMA
2011	0411112732.79	37.141	140.644	22	5.0	---	PDE-Q

2011	0411114235.94	36.969	140.454	14	5.5	---	PDE-Q
2011	0411130544.71	37.073	140.489	42	5.0	---	PDE-Q
2011	0411132408.52	38.159	142.353	5	4.7	---	PDE-Q
2011	0411140206.03	36.889	140.755	13	4.6	---	PDE-Q
2011	0411140850.52	36.935	140.695	26	4.8	---	PDE-Q
2011	0411142600.00	37.100	140.700	0	4.5	---	JMA
2011	0411150808.67	37.636	142.570	37	4.9	---	PDE-Q
2011	0411152143.81	36.900	140.264	41	5.1	---	PDE-Q
2011	0411154315.54	36.847	140.582	21	4.8	---	PDE-Q
2011	0411155517.23	36.973	140.713	47	4.9	---	PDE-Q
2011	0411155801.70	37.061	140.383	46	5.2	---	PDE-Q
2011	0411161545.17	35.979	142.025	16	4.8	---	PDE-Q
2011	0411161930.63	36.276	140.424	10	4.7	---	PDE-Q
2011	0411164922.43	37.148	140.478	38	4.8	---	PDE-Q
2011	0411171800.00	37.000	140.700	0	4.7	---	JMA
2011	0411175332.00	37.750	144.620	33	5.5	---	MOS
2011	0411181500.00	37.100	140.800	0	4.7	---	JMA
2011	0411194300.00	37.100	140.700	0	4.7	---	JMA
2011	0411200300.00	36.900	140.700	0	4.9	---	JMA
2011	0411202700.00	37.000	140.600	0	4.6	---	JMA
2011	0411210300.00	38.400	141.800	0	4.7	---	JMA
2011	0411212119.44	38.831	141.972	58	4.1	---	PDE-Q
2011	0411220300.00	37.000	140.700	0	4.9	---	JMA
2011	0411230200.00	36.900	140.900	0	4.6	---	JMA
2011	0411230816.42	35.405	140.542	13	6.2	---	PDE-Q
2011	0411234800.00	37.000	140.800	0	5.0	---	JMA
2011	0412000900.00	37.000	140.800	0	4.8	---	JMA
2011	0412004600.00	37.000	140.800	0	4.6	---	JMA
2011	0412010857.24	39.950	143.656	39	5.0	---	PDE-Q
2011	0412012353.30	35.305	140.921	35	4.9	---	PDE-Q
2011	0412013311.82	37.290	141.368	56	4.8	---	PDE-Q
2011	0412021350.31	36.979	140.403	10	4.9	---	PDE-Q
2011	0412022347.79	35.405	140.756	35	4.7	---	PDE-Q
2011	0412045939.89	35.306	140.755	35	4.4	---	PDE-Q
2011	0412050742.28	37.112	140.579	11	6.0	---	PDE-Q
2011	0412052632.52	37.061	140.762	10	5.1	---	PDE-Q
2011	0412074247.77	36.717	141.397	63	4.9	---	PDE-Q
2011	0412074722.38	37.090	140.674	59	4.8	---	PDE-Q
2011	0412084830.30	37.075	140.429	41	5.1	---	PDE-Q
2011	0412101535.54	37.247	140.634	10	4.6	---	PDE-Q
2011	0412110000.00	37.100	140.700	0	4.5	---	JMA

2011	0412154141.88	37.023	142.494	42	4.9	---	PDE-Q
2011	0412184700.00	37.100	140.700	0	4.6	---	JMA
2011	0412190216.87	36.954	140.631	19	5.0	---	PDE-Q
2011	0412193400.00	37.100	140.700	0	4.6	---	JMA
2011	0412193748.84	39.373	141.972	49	5.6	---	PDE-Q
2011	0412215210.21	36.329	141.893	30	4.6	---	PDE-Q
2011	0412233622.23	35.373	140.752	22	5.0	---	PDE-Q
2011	0412235400.00	38.300	141.900	0	4.8	---	JMA
2011	0413010758.55	36.951	140.441	8	5.4	---	PDE-Q
2011	0413031659.23	35.852	141.179	42	4.9	---	PDE-Q
2011	0413054105.82	37.025	142.352	35	4.6	---	PDE-Q
2011	0413055200.00	37.100	140.800	0	4.7	---	JMA
2011	0413073235.88	39.540	141.384	10	4.9	---	PDE-Q
2011	0413082602.29	38.627	141.956	10	4.2	---	PDE-Q
2011	0413120537.26	38.018	143.049	35	4.9	---	PDE-Q
2011	0413125506.22	37.045	142.514	26	4.5	---	PDE-Q
2011	0413125821.68	37.085	141.291	35	4.8	---	PDE-Q
2011	0413132910.04	38.715	142.875	51	4.8	---	PDE-Q
2011	0413140007.48	39.553	143.208	10	4.5	---	PDE-Q
2011	0413155421.47	36.616	141.855	36	4.8	---	PDE-Q
2011	0413195723.87	39.587	143.357	11	6.1	---	PDE-Q
2011	0413200234.00	39.960	143.020	33	5.1	---	MOS
2011	0413203221.55	39.657	143.168	18	5.5	---	PDE-Q
2011	0413203900.00	37.400	141.300	0	4.7	---	JMA
2011	0413213656.31	39.530	143.211	23	4.6	---	PDE-Q
2011	0413214300.00	37.000	140.700	0	4.6	---	JMA
2011	0413223553.82	36.834	140.391	26	5.1	---	PDE-Q
2011	0414010649.62	38.587	141.636	63	4.7	---	PDE-Q
2011	0414013326.60	40.013	142.868	38	5.1	---	PDE-Q
2011	0414013735.93	38.131	143.586	23	4.6	---	PDE-Q
2011	0414021543.26	39.697	143.393	35	4.7	---	PDE-Q
2011	0414022409.73	36.866	140.730	10	4.6	---	PDE-Q
2011	0414030857.99	36.985	140.602	10	5.6	---	PDE-Q
2011	0414031402.50	38.983	142.404	53	4.7	---	PDE-Q
2011	0414041340.79	36.070	142.271	9	4.9	---	PDE-Q
2011	0414044635.67	39.945	142.608	29	5.1	---	PDE-Q
2011	0414060709.45	36.686	141.580	36	5.4	---	PDE-Q
2011	0414060847.34	35.560	141.881	10	5.7	---	PDE-Q
2011	0414073200.00	37.200	141.500	0	4.6	---	JMA
2011	0414084716.53	36.560	141.805	55	4.6	---	PDE-Q
2011	0414103235.02	39.717	143.380	30	5.3	---	PDE-Q

2011	0414110200.00	36.800	140.600	0	4.7	---	JMA
2011	0414112400.00	37.100	140.800	0	4.7	---	JMA
2011	0414114600.00	37.000	140.600	0	4.7	---	JMA
2011	0414122400.00	37.100	140.900	0	4.9	---	JMA
2011	0414145000.00	37.100	140.900	0	4.2	---	JMA
2011	0414200000.00	37.200	141.200	0	4.6	---	JMA
2011	0414212403.83	37.724	143.801	35	4.8	---	PDE-Q
2011	0414220032.26	38.937	142.308	69	4.7	---	PDE-Q
2011	0414224905.93	36.812	143.940	35	4.7	---	PDE-Q
2011	0414233200.00	39.000	142.500	0	4.9	---	JMA
2011	0414235023.71	37.285	140.952	91	5.1	---	PDE-Q
2011	0415005036.82	39.157	142.643	33	4.8	---	PDE-Q
2011	0415005626.35	36.457	142.560	24	5.1	---	PDE-Q
2011	0415022951.63	36.327	141.775	18	4.5	---	PDE-Q
2011	0415044439.18	37.894	143.146	11	4.7	---	PDE-Q
2011	0415051508.03	36.971	140.585	45	4.8	---	PDE-Q
2011	0415074025.82	37.526	144.479	8	4.7	---	PDE-Q
2011	0415125310.10	37.736	140.818	22	4.5	---	PDE-Q
2011	0415130019.82	38.643	144.694	26	4.7	---	PDE-Q
2011	0415134400.00	37.100	141.200	0	4.6	---	JMA
2011	0415143425.61	39.148	142.282	31	5.2	---	PDE-Q
2011	0415170755.47	38.365	142.061	84	4.9	---	PDE-Q
2011	0415192705.88	40.196	142.544	45	4.9	---	PDE-Q
2011	0415202931.96	36.257	143.291	40	4.6	---	PDE-Q
2011	0415211037.19	37.214	142.403	21	5.3	---	PDE-Q
2011	0415211914.20	37.237	144.311	28	5.2	---	PDE-Q
2011	0415221209.78	38.123	143.563	29	4.6	---	PDE-Q
2011	0415230857.74	37.721	144.613	35	4.6	---	PDE-Q
2011	0416032239.67	38.204	141.985	56	4.7	---	PDE-Q
2011	0416041955.57	37.671	141.482	59	4.9	---	PDE-Q
2011	0416072022.66	38.266	141.963	61	4.9	---	PDE-Q
2011	0416072900.00	37.000	140.600	0	4.6	---	JMA
2011	0416084552.10	38.541	144.104	25	4.7	---	PDE-Q
2011	0416201920.30	37.110	140.875	37	4.9	---	PDE-Q
2011	0416202131.75	36.107	141.076	39	5.1	---	PDE-Q
2011	0416203647.44	36.866	143.930	22	5.5	---	PDE-Q
2011	0416205412.05	38.861	141.514	47	4.9	---	PDE-Q
2011	0417010227.51	37.619	143.817	17	4.9	---	PDE-Q
2011	0417013025.41	37.695	143.878	12	4.6	---	PDE-Q
2011	0417013750.01	38.608	142.201	24	5.0	---	PDE-Q
2011	0417014018.89	37.061	143.261	35	4.5	---	PDE-Q

2011	0417015427.30	40.310	142.380	24	4.9	---	PDE-Q
2011	0417021842.19	35.113	141.204	8	4.7	---	PDE-Q
2011	0417025557.33	40.045	143.421	11	4.9	---	PDE-Q
2011	0417025925.87	39.406	143.611	35	4.9	---	PDE-Q
2011	0417025955.62	39.861	143.537	32	5.0	---	PDE-Q
2011	0417032531.37	37.573	144.832	35	4.4	---	PDE-Q
2011	0417041316.19	35.229	141.229	35	4.5	---	PDE-Q
2011	0417042357.28	38.411	141.931	60	4.8	---	PDE-Q
2011	0417043859.02	35.769	140.370	22	4.9	---	PDE-Q
2011	0417053850.48	37.022	140.610	25	4.8	---	PDE-Q
2011	0417061704.95	38.160	144.059	10	5.0	---	PDE-Q
2011	0417063609.01	38.165	144.218	10	4.6	---	PDE-Q
2011	0417064924.16	35.735	140.360	37	5.0	---	PDE-Q
2011	0417071252.24	37.521	141.215	55	4.9	---	PDE-Q
2011	0417080348.86	37.005	140.685	17	4.7	---	PDE-Q
2011	0417125145.87	37.092	140.611	24	5.0	---	PDE-Q
2011	0417140731.11	37.141	144.496	17	4.8	---	PDE-Q
2011	0417141016.85	36.792	140.417	8	4.5	---	PDE-Q
2011	0417144652.76	37.104	140.935	13	4.9	---	PDE-Q
2011	0417154729.36	37.019	141.131	21	5.1	---	PDE-Q
2011	0417160002.41	36.609	141.607	23	5.0	---	PDE-Q
2011	0417161748.86	35.434	141.311	18	4.5	---	PDE-Q
2011	0417161832.13	35.456	141.273	35	4.6	---	PDE-Q
2011	0417164801.44	37.405	141.512	47	4.9	---	PDE-Q
2011	0417173422.44	38.068	142.508	32	4.3	---	PDE-Q
2011	0417183300.00	37.000	140.800	0	4.6	---	JMA
2011	0418020818.58	37.213	140.480	45	4.8	---	PDE-Q
2011	0418035344.41	37.156	143.552	35	4.9	---	PDE-Q
2011	0418072111.13	36.556	141.137	40	4.3	---	PDE-Q
2011	0418080200.00	37.200	141.300	0	4.7	---	JMA
2011	0418113245.70	36.237	143.767	29	4.2	---	PDE-Q
2011	0418130320.73	40.205	141.621	57	4.7	---	PDE-Q
2011	0418130323.25	40.338	142.138	59	4.3	---	PDE-Q
2011	0418145723.26	37.944	144.139	35	4.6	---	PDE-Q
2011	0418150758.17	37.312	140.888	21	4.8	---	PDE-Q
2011	0418180237.00	39.570	142.720	33	5.3	---	MOS
2011	0418213350.72	36.681	141.372	25	5.0	---	PDE-Q
2011	0419040430.08	37.186	143.491	15	5.3	---	PDE-Q
2011	0419065333.94	37.092	140.471	10	5.0	---	PDE-Q
2011	0419123400.00	37.100	140.700	0	4.6	---	JMA
2011	0419144706.90	36.898	140.843	2	4.9	---	PDE-Q

2011	0419192924.98	37.162	140.990	63	4.9	---	PDE-Q
2011	0419213800.00	36.500	140.900	0	4.6	---	JMA
2011	0420005052.00	37.200	140.620	33	5.1	---	MOS
2011	0420020404.78	39.867	143.116	34	4.9	---	PDE-Q
2011	0420041228.00	36.662	141.673	45	4.6	---	PDE-Q
2011	0420075219.28	36.538	141.610	35	4.3	---	PDE-Q
2011	0420083026.05	36.960	140.926	37	4.4	---	PDE-Q
2011	0420152420.31	37.255	143.774	35	4.7	---	PDE-Q
2011	0420152945.40	36.599	140.901	54	4.8	---	PDE-Q
2011	0420163321.76	38.213	141.654	64	4.9	---	PDE-Q
2011	0420184100.00	37.100	140.700	0	4.5	---	JMA
2011	0420190400.00	36.900	140.700	0	4.5	---	JMA
2011	0420205100.00	37.100	140.700	0	4.7	---	JMA
2011	0421003904.65	40.498	143.479	15	5.6	---	PDE-Q
2011	0421015441.58	40.306	143.628	11	5.8	---	PDE-Q
2011	0421030837.54	37.265	142.247	24	5.3	---	PDE-Q
2011	0421070112.17	38.896	142.967	22	4.2	---	PDE-Q
2011	0421081814.72	38.332	142.207	28	5.4	---	PDE-Q
2011	0421133703.88	35.617	140.452	43	6.2	---	PDE-Q
2011	0421134712.90	35.762	140.704	46	5.1	---	PDE-Q
2011	0421135401.59	35.602	140.531	53	5.0	---	PDE-Q
2011	0421150650.34	35.552	140.765	39	5.0	---	PDE-Q
2011	0421161118.64	37.529	141.371	55	5.6	---	PDE-Q
2011	0421163132.38	40.685	143.065	27	4.9	---	PDE-Q
2011	0421212421.10	36.954	142.830	21	4.6	---	PDE-Q
2011	0421225020.86	37.195	144.005	35	4.6	---	PDE-Q
2011	0422023826.22	37.407	142.705	35	4.8	---	PDE-Q
2011	0422031254.18	38.503	141.763	41	5.0	---	PDE-Q
2011	0422084239.56	37.194	142.100	13	4.9	---	PDE-Q
2011	0422102817.07	38.484	144.650	25	4.6	---	PDE-Q
2011	0422152519.80	37.224	140.981	36	5.2	---	PDE-Q
2011	0422162741.34	37.137	144.085	40	4.7	---	PDE-Q
2011	0422180612.00	36.062	141.546	38	4.8	---	PDE-Q
2011	0422214847.70	35.277	142.912	35	4.4	---	PDE-Q
2011	0422231530.38	36.682	140.575	36	4.8	---	PDE-Q
2011	0423041613.44	40.281	143.682	35	4.9	---	PDE-Q
2011	0423053654.80	39.958	143.804	27	4.7	---	PDE-Q
2011	0423063026.65	39.098	142.269	51	5.0	---	PDE-Q
2011	0423081133.16	37.550	141.607	20	4.7	---	PDE-Q
2011	0423101247.03	39.114	142.852	31	5.9	---	PDE-Q
2011	0423105926.20	35.865	141.641	42	4.2	---	PDE-Q

2011	0423110745.14	37.012	140.654	49	4.7	---	PDE-Q
2011	0423113813.44	36.719	142.089	21	4.9	---	PDE-Q
2011	0423125645.58	35.360	141.050	35	4.5	---	PDE-Q
2011	0423143129.24	36.629	140.632	42	4.8	---	PDE-Q
2011	0423193431.68	36.882	143.916	39	5.1	---	PDE-Q
2011	0423200459.88	37.255	141.342	40	4.9	---	PDE-Q
2011	0423205300.00	37.100	140.800	0	4.7	---	JMA
2011	0423215936.53	37.110	144.208	35	5.0	---	PDE-Q
2011	0423220651.69	35.151	141.364	16	4.9	---	PDE-Q
2011	0424011646.55	36.821	142.037	13	4.7	---	PDE-Q
2011	0424022221.56	37.260	142.547	20	4.7	---	PDE-Q
2011	0424022500.82	36.881	144.063	13	4.6	---	PDE-Q
2011	0424044754.10	38.401	141.892	64	4.7	---	PDE-Q
2011	0424050610.48	34.876	140.851	36	4.1	---	PDE-Q
2011	0424091110.71	37.136	142.522	37	4.6	---	PDE-Q
2011	0424093011.98	34.868	140.872	16	5.0	---	PDE-Q
2011	0424095158.38	38.710	141.888	59	5.0	---	PDE-Q
2011	0424100955.14	37.110	140.496	35	5.0	---	PDE-Q
2011	0424122000.00	37.100	140.800	0	4.5	---	JMA
2011	0424123022.82	37.624	144.711	10	4.8	---	PDE-Q
2011	0424143404.22	38.011	141.711	62	4.9	---	PDE-Q
2011	0424161835.04	38.230	143.495	19	5.2	---	PDE-Q
2011	0424194940.04	40.334	143.588	41	4.2	---	PDE-Q
2011	0424210638.04	35.253	140.978	33	5.0	---	PDE-Q
2011	0425021235.49	39.806	143.367	31	4.8	---	PDE-Q
2011	0425064125.76	36.757	141.732	43	4.7	---	PDE-Q
2011	0425090020.81	36.237	140.967	26	5.2	---	PDE-Q
2011	0425090935.84	37.401	143.933	40	4.6	---	PDE-Q
2011	0425151323.00	36.902	140.624	38	4.7	---	PDE-Q
2011	0425202400.00	37.100	141.100	0	4.6	---	JMA
2011	0425211412.01	36.856	142.316	7	5.0	---	PDE-Q
2011	0425211600.00	38.300	141.900	0	4.9	---	JMA
2011	0426000500.00	37.100	140.700	0	4.3	---	JMA
2011	0426015757.79	38.460	143.084	37	4.5	---	PDE-Q
2011	0426022717.54	36.751	140.601	10	4.5	---	PDE-Q
2011	0426033936.24	36.787	140.519	25	4.5	---	PDE-Q
2011	0426040151.63	37.301	141.191	37	5.2	---	PDE-Q
2011	0426043554.83	37.190	144.368	10	4.6	---	PDE-Q
2011	0426100304.71	37.689	143.935	20	4.2	---	PDE-Q
2011	0426122654.93	38.370	141.807	55	4.4	---	PDE-Q
2011	0426155857.08	39.707	145.074	10	4.9	---	PDE-Q

2011	0426160207.79	34.656	142.738	35	4.9	---	PDE-Q
2011	0426180327.95	36.528	143.259	33	5.1	---	PDE-Q
2011	0427035500.00	37.100	140.700	0	4.7	---	JMA
2011	0427122700.00	37.000	140.700	0	4.5	---	JMA
2011	0427214250.34	36.738	142.685	32	5.0	---	PDE-Q
2011	0427214503.38	38.170	141.778	53	4.9	---	PDE-Q
2011	0428000225.87	36.787	142.501	34	4.9	---	PDE-Q
2011	0428014449.01	38.608	141.745	62	5.1	---	PDE-Q
2011	0428014719.06	35.267	142.717	23	4.9	---	PDE-Q
2011	0428022045.24	35.386	142.782	10	4.7	---	PDE-Q
2011	0428092748.68	37.492	141.652	49	5.6	---	PDE-Q
2011	0428123900.00	37.100	140.900	0	4.5	---	JMA
2011	0428140441.02	37.237	142.658	30	4.1	---	PDE-Q
2011	0428171800.00	39.200	142.400	0	4.7	---	JMA
2011	0429011354.37	37.489	142.446	32	5.1	---	PDE-Q
2011	0429065449.06	39.315	141.879	54	5.1	---	PDE-Q
2011	0429083550.22	36.415	143.328	20	5.0	---	PDE-Q
2011	0429122400.00	36.700	140.700	0	4.0	---	JMA
2011	0429170413.40	35.286	140.881	22	5.1	---	PDE-Q
2011	0429182258.56	39.652	142.242	35	4.9	---	PDE-Q
2011	0429204209.26	37.572	142.418	17	5.1	---	PDE-Q
2011	0429221933.54	38.877	141.897	60	5.4	---	PDE-Q
2011	0430015428.32	39.647	142.188	68	4.9	---	PDE-Q
2011	0430050635.98	36.784	141.071	40	5.4	---	PDE-Q
2011	0430052900.00	36.800	141.300	0	4.7	---	JMA
2011	0430054701.41	37.391	141.188	34	4.9	---	PDE-Q
2011	0430060425.47	36.764	141.046	38	5.0	---	PDE-Q
2011	0430060652.07	37.450	143.582	35	4.9	---	PDE-Q
2011	0430082002.39	38.760	144.303	10	4.6	---	PDE-Q
2011	0430111350.36	35.136	141.835	23	4.8	---	PDE-Q
2011	0430171200.48	36.373	140.793	31	5.2	---	PDE-Q
2011	0430180850.09	39.849	143.411	28	4.9	---	PDE-Q
2011	0501000200.00	37.100	140.900	0	4.7	---	JMA
2011	0501012741.51	35.826	140.765	9	5.0	---	PDE-Q
2011	0501015600.00	37.200	141.500	0	4.6	---	JMA
2011	0501024845.97	37.418	141.145	26	4.9	---	PDE-Q
2011	0501033700.00	37.100	140.700	0	4.5	---	JMA
2011	0501050600.00	37.500	141.300	0	4.8	---	JMA
2011	0501061224.39	36.846	142.083	32	4.2	---	PDE-Q
2011	0501070430.26	35.860	140.984	31	4.5	---	PDE-Q
2011	0501093600.00	36.600	140.600	0	4.6	---	JMA

2011	0501102244.04	35.824	140.676	62	5.1	---	PDE-Q
2011	0501154004.79	36.803	143.269	10	4.8	---	PDE-Q
2011	0501154713.67	37.616	143.820	4	4.9	---	PDE-Q
2011	0501235200.00	36.700	140.700	0	4.3	---	JMA
2011	0502003759.91	39.390	143.356	41	4.9	---	PDE-Q
2011	0502020933.93	37.645	141.520	35	5.0	---	PDE-Q
2011	0502031700.00	37.000	140.600	0	4.4	---	JMA
2011	0502075500.00	36.600	140.900	0	4.6	---	JMA
2011	0502090919.13	39.985	142.367	40	4.3	---	PDE-Q
2011	0502112949.80	38.844	141.849	42	4.4	---	PDE-Q
2011	0502123648.12	38.315	142.102	38	4.7	---	PDE-Q
2011	0502131239.66	37.579	143.572	35	4.9	---	PDE-Q
2011	0502151142.76	37.594	143.782	10	4.9	---	PDE-Q
2011	0502161138.31	35.975	141.553	35	5.0	---	PDE-Q
2011	0502212549.38	40.085	142.597	30	5.3	---	PDE-Q
2011	0503021648.18	36.191	142.548	35	4.6	---	PDE-Q
2011	0503114406.61	37.316	141.918	68	4.3	---	PDE-Q
2011	0503133555.99	38.841	141.870	58	5.1	---	PDE-Q
2011	0503135719.74	36.986	140.441	45	4.9	---	PDE-Q
2011	0504082353.24	37.052	143.261	36	5.5	---	PDE-Q
2011	0504084700.00	36.800	140.600	0	4.5	---	JMA
2011	0504114319.47	36.248	141.220	38	4.4	---	PDE-Q
2011	0504131851.19	38.879	142.004	62	5.0	---	PDE-Q
2011	0504150900.00	36.800	140.600	0	4.7	---	JMA
2011	0504152701.28	37.168	144.137	10	4.5	---	PDE-Q
2011	0504153012.11	36.855	143.307	35	4.9	---	PDE-Q
2011	0504154309.58	35.475	143.021	35	4.9	---	PDE-Q
2011	0504162904.98	37.772	141.994	52	4.9	---	PDE-Q
2011	0504164509.05	36.190	142.576	35	4.7	---	PDE-Q
2011	0505030504.22	37.406	143.575	35	4.9	---	PDE-Q
2011	0505050644.16	35.623	140.636	59	4.3	---	PDE-Q
2011	0505102053.14	36.779	140.589	43	4.4	---	PDE-Q
2011	0505145821.04	38.173	144.040	24	6.1	---	PDE-Q
2011	0505151254.29	38.325	144.041	26	5.0	---	PDE-Q
2011	0505170429.74	37.120	140.729	14	5.0	---	PDE-Q
2011	0505180600.00	36.700	140.700	0	4.4	---	JMA
2011	0505183617.00	36.050	141.980	33	5.3	---	MOS
2011	0505223700.00	37.000	140.500	0	4.6	---	JMA
2011	0505224652.56	36.541	141.873	47	5.0	---	PDE-Q
2011	0505230910.63	37.255	142.567	8	5.0	---	PDE-Q
2011	0506043249.55	38.065	143.933	35	5.0	---	PDE-Q

2011	0506051459.37	39.095	142.076	55	5.1	---	PDE-Q
2011	0506075600.00	38.300	141.800	0	4.7	---	JMA
2011	0506181129.75	38.060	144.182	26	5.2	---	PDE-Q
2011	0507165937.31	38.250	144.118	20	4.9	---	PDE-Q
2011	0507171316.43	38.514	144.498	30	4.9	---	PDE-Q
2011	0507173204.80	37.412	143.804	27	4.9	---	PDE-Q
2011	0507195625.48	36.118	141.804	19	4.9	---	PDE-Q
2011	0507200304.44	38.584	142.309	95	4.8	---	PDE-Q
2011	0507205219.56	40.251	142.477	27	5.7	---	PDE-Q
2011	0507221112.67	37.124	140.645	48	4.9	---	PDE-Q
2011	0507224551.42	39.576	141.827	78	4.9	---	PDE-Q
2011	0507231825.34	37.377	142.620	16	5.1	---	PDE-Q
2011	0508045344.50	37.095	140.964	65	4.5	---	PDE-Q
2011	0508045942.92	38.334	144.152	31	4.3	---	PDE-Q
2011	0508090026.21	38.609	143.218	32	4.9	---	PDE-Q
2011	0508104255.53	37.649	141.434	60	5.1	---	PDE-Q
2011	0508132842.62	38.475	142.690	41	5.1	---	PDE-Q
2011	0508144604.79	39.783	143.069	45	5.0	---	PDE-Q
2011	0508152049.71	37.144	140.682	41	4.6	---	PDE-Q
2011	0509105300.00	36.600	140.900	0	4.7	---	JMA
2011	0509120821.03	36.227	140.849	25	4.2	---	PDE-Q
2011	0509201556.77	37.761	143.538	30	5.6	---	PDE-Q
2011	0509233800.00	36.700	140.700	0	4.8	---	JMA
2011	0510024944.82	35.568	141.799	35	5.0	---	PDE-Q
2011	0510071614.21	37.265	143.701	35	5.6	---	PDE-Q
2011	0510083030.83	37.792	143.564	25	5.2	---	PDE-Q
2011	0510085449.41	38.100	142.245	53	5.3	---	PDE-Q
2011	0510101440.00	36.340	141.720	33	5.2	---	MOS
2011	0510161236.19	36.794	142.011	22	5.0	---	PDE-Q
2011	0510170215.13	35.660	140.863	19	4.9	---	PDE-Q
2011	0510182400.00	38.300	141.900	0	4.7	---	JMA
2011	0510195811.94	38.873	142.090	75	4.9	---	PDE-Q
2011	0510202417.46	35.592	141.090	32	5.0	---	PDE-Q
2011	0511012006.22	37.808	143.575	18	5.2	---	PDE-Q
2011	0511141711.49	36.311	142.488	35	5.1	---	PDE-Q
2011	0511175712.00	37.390	143.760	10	5.1	---	MOS
2011	0511181435.63	36.068	142.217	36	5.3	---	PDE-Q
2011	0511182145.00	38.570	141.850	50	5.1	---	MOS
2011	0511222343.77	37.642	143.555	29	4.2	---	PDE-Q
2011	0512094637.10	39.746	143.276	36	4.5	---	PDE-Q
2011	0512152616.69	36.298	141.087	45	4.9	---	PDE-Q

2011	0512162059.22	39.640	142.242	52	5.1	---	PDE-Q
2011	0512223600.00	36.600	140.600	0	4.5	---	JMA
2011	0513101701.38	37.685	143.590	31	4.3	---	PDE-Q
2011	0513121916.76	35.185	140.860	54	4.7	---	PDE-Q
2011	0513162800.00	36.700	140.600	0	4.7	---	JMA
2011	0513201739.49	38.025	141.280	42	4.9	---	PDE-Q
2011	0513214924.63	35.919	140.988	8	5.1	---	PDE-Q
2011	0513233553.76	37.409	141.319	43	6.0	---	PDE-Q
2011	0514070213.00	37.464	142.658	35	5.0	---	PDE-Q
2011	0514150144.63	37.535	141.116	23	4.9	---	PDE-Q
2011	0514235049.28	37.678	141.478	53	5.3	---	PDE-Q
2011	0515024206.96	36.900	142.199	16	5.0	---	PDE-Q
2011	0515102520.56	37.065	142.331	26	5.4	---	PDE-Q
2011	0515121420.08	37.233	142.617	54	5.2	---	PDE-Q
2011	0515123303.10	39.934	142.567	40	5.1	---	PDE-Q
2011	0515134836.30	37.798	142.732	20	5.1	---	PDE-Q
2011	0515190743.16	38.729	141.745	59	5.1	---	PDE-Q
2011	0515215817.56	35.838	140.858	51	4.5	---	PDE-Q
2011	0516011100.45	36.957	143.975	10	4.9	---	PDE-Q
2011	0516155334.36	37.450	141.123	43	5.1	---	PDE-Q
2011	0516191027.00	37.430	142.350	33	5.1	---	MOS
2011	0517010300.00	37.800	141.100	0	4.7	---	JMA
2011	0517133149.04	37.930	143.901	22	4.9	---	PDE-Q
2011	0517134100.00	36.300	140.500	0	4.6	---	JMA
2011	0517205420.52	36.381	142.644	29	4.8	---	PDE-Q
2011	0517221610.47	36.954	142.774	40	4.3	---	PDE-Q
2011	0518072400.00	37.200	141.500	0	4.7	---	JMA
2011	0518114827.77	36.621	141.106	51	4.3	---	PDE-Q
2011	0518133246.17	36.914	140.829	39	4.9	---	PDE-Q
2011	0518171557.72	39.702	144.347	46	4.6	---	PDE-Q
2011	0519083250.42	38.365	141.690	62	5.1	---	PDE-Q
2011	0519091247.98	37.143	142.652	35	5.4	---	PDE-Q
2011	0519134200.00	36.700	140.700	0	4.2	---	JMA
2011	0520001011.72	37.822	142.299	38	5.0	---	PDE-Q
2011	0520004617.38	35.774	140.961	29	5.7	---	PDE-Q
2011	0520072842.70	37.435	141.508	4	5.3	---	PDE-Q
2011	0520221055.92	35.957	141.862	39	5.1	---	PDE-Q
2011	0521034000.00	37.100	141.200	0	4.6	---	JMA
2011	0521053527.03	39.124	142.370	35	4.9	---	PDE-Q
2011	0521085147.65	35.909	140.387	61	5.1	---	PDE-Q
2011	0521102444.94	37.282	141.401	35	4.9	---	PDE-Q

2011	0521104229.35	38.819	142.145	44	4.9	---	PDE-Q
2011	0521150300.00	36.600	140.900	0	4.7	---	JMA
2011	0521220626.53	35.592	140.728	35	5.5	---	PDE-Q
2011	0522040437.08	34.868	142.760	35	4.9	---	PDE-Q
2011	0522044537.39	34.787	142.797	6	5.0	---	PDE-Q
2011	0522082823.64	39.198	142.918	35	5.0	---	PDE-Q
2011	0522083342.10	39.238	142.694	35	5.2	---	PDE-Q
2011	0522094132.56	34.820	142.756	28	4.9	---	PDE-Q
2011	0522110656.36	37.648	141.967	9	5.0	---	PDE-Q
2011	0522144611.74	37.595	143.486	29	5.6	---	PDE-Q
2011	0522213953.52	37.624	141.611	44	4.5	---	PDE-Q
2011	0523014854.64	37.774	143.621	39	5.3	---	PDE-Q
2011	0523052104.09	38.281	141.776	43	4.3	---	PDE-Q
2011	0523144027.24	38.140	142.455	37	5.0	---	PDE-Q
2011	0524012539.10	40.210	142.053	48	4.9	---	PDE-Q
2011	0524034052.02	39.709	143.237	21	5.8	---	PDE-Q
2011	0524054100.42	40.080	142.014	52	4.3	---	PDE-Q
2011	0524101816.80	36.812	141.160	35	4.9	---	PDE-Q
2011	0524114923.43	36.392	140.992	34	5.3	---	PDE-Q
2011	0524183337.92	36.365	142.831	20	5.0	---	PDE-Q
2011	0524194136.20	36.472	142.214	24	5.1	---	PDE-Q
2011	0524203616.27	37.084	140.870	21	5.2	---	PDE-Q
2011	0524223801.23	37.579	140.334	36	5.0	---	PDE-Q
2011	0525202929.00	39.780	143.320	33	5.3	---	MOS
2011	0526065700.00	39.600	142.100	0	4.6	---	JMA
2011	0526101500.00	37.100	140.900	0	4.6	---	JMA
2011	0526105640.00	36.780	140.440	50	5.1	---	MOS
2011	0526122200.00	37.100	140.900	0	4.2	---	JMA
2011	0527033420.45	37.000	140.892	45	5.0	---	PDE-Q
2011	0527080400.00	37.100	140.700	0	4.7	---	JMA
2011	0527112500.00	37.000	140.900	0	4.3	---	JMA
2011	0527143926.44	36.393	141.143	23	4.4	---	PDE-Q
2011	0527230200.00	39.800	142.200	0	5.0	---	JMA
2011	0528001006.24	38.660	144.039	22	5.0	---	PDE-Q
2011	0528015700.00	35.700	141.000	0	4.9	---	JMA
2011	0528021400.00	36.500	140.600	0	4.9	---	JMA
2011	0528080434.67	37.678	144.170	10	5.1	---	PDE-Q
2011	0528100159.52	36.318	142.100	35	4.4	---	PDE-Q
2011	0528134607.65	36.254	142.073	31	4.9	---	PDE-Q
2011	0528141836.90	37.723	144.197	34	4.1	---	PDE-Q
2011	0528145605.26	37.338	143.657	35	4.6	---	PDE-Q

2011	0528185251.00	38.650	142.749	48	4.8	---	PDE-Q
2011	0529000314.42	40.228	141.479	47	4.2	---	PDE-Q
2011	0529032645.35	37.573	143.907	15	5.0	---	PDE-Q
2011	0529094044.01	38.316	141.745	72	4.9	---	PDE-Q
2011	0529112840.73	39.681	143.280	32	5.0	---	PDE-Q
2011	0530000539.00	36.830	142.620	33	4.6	---	MOS
2011	0530010438.00	36.580	142.620	33	5.1	---	MOS
2011	0530122450.00	36.670	143.820	33	5.1	---	MOS
2011	0530193638.00	36.530	140.910	33	5.2	---	MOS
2011	0530235343.00	40.360	143.130	33	5.5	---	MOS
2011	0531075017.90	36.508	140.770	47	4.3	---	PDE-Q
2011	0531112650.06	37.494	141.237	20	4.2	---	PDE-Q
2011	0531122834.00	39.440	142.010	50	5.3	---	MOS
2011	0531162609.00	40.290	143.350	33	5.3	---	MOS
2011	0531212300.00	37.100	140.900	0	4.3	---	JMA
2011	0531232000.00	36.700	140.600	0	4.6	---	JMA
2011	0531235359.18	38.597	142.175	59	4.3	---	PDE-Q