

**THE URBAN HEAT ISLAND EFFECT  
IN KYRENIA, NORTH CYPRUS**

**MEHMET ATA**K

**THE URBAN HEAT ISLAND EFFECT  
IN KYRENIA, NORTH CYPRUS**

**NEU  
2018**

**A THESIS STUDY SUBMITTED TO THE GRADUATE  
SCHOOL OF APPLIED SCIENCES  
OF  
NEAR EAST UNIVERSITY**

**By  
MEHMET ATA**K

**In Partial Fulfilment of the  
Requirement for the Degree of  
Master of Science  
in  
Landscape Architecture**

**NICOSIA, 2018**



**"THE URBAN HEAT ISLAND EFFECT  
IN KYRENIA, NORTH CYPRUS"**

**A THESIS STUDY SUBMITTED TO THE GRADUATE  
SCHOOL OF APPLIED SCIENCES  
OF  
NEAR EAST UNIVERSITY**

**By  
MEHMET ATAK**

**In Partial Fulfilment of the Requirement for  
the Degree of Master of Science  
in  
Landscape Architecture**

**NICOSIA, 2018**

**Mehmet ATAŞ: THE URBAN HEAT ISLAND EFFECT  
IN KYRENIA, NORTH CYPRUS.**

**Approval of Director of Graduate School of  
Applied Sciences**

Prof. Dr. Nadire CAVUS

We certify this thesis is satisfactory for the award of the degree of Masters of Science in  
Landscape Architecture.

Examining Committee in Charge:

Prof. Dr. Salih Gücel

Department of Landscape  
Architecture, NEU

Assoc. Prof. Dr. Özge Ö. Fuller

Supervisor, Department of Landscape  
Architecture, NEU

Prof. Dr. Zeynep Ü. Onur

Department of Architecture, Alanya  
HEP UNIVERSITY

Assistant Prof. Dr. Sema Uzunoğlu

Department of Architecture, NEU

Assistant Prof. Dr. Buket Asilsoy

Co-supervisor, Department of Landscape  
Architecture, NEU

I hereby declare that all information in this document has been obtained and presented in accordance with academic rules and ethical conduct. I also declare that, as required by these rules and conduct, I have fully cited and referenced all material and results that are not original to this work.

Name, Last name: Mehmet Atak

Signature:

Date:

## **ACKNOWLEDGMENTS**

I would like to express my deepest and sincere gratitude to all the people who have spent their precious time sharing their knowledge and helping forward the research that resulted in finalizing the thesis study in an appropriate manner and composition.

**To my family...**

## **ABSTRACT**

After the Industrial Revolution, urbanisation increased. The vegetation areas, grassland and forests were replaced with construction materials as a result of this urbanization process. Roads, pavements, concrete surfaces and walls all absorb sunlight during daytime and reflect heat as heat waves at night. Green areas have a significant role in urban life. Most of the research conducted in this field has shown that green areas mitigate the urban heat island, improve air quality, decrease noise and manage storm water. In particular, green roofs, green walls, street trees and water sources all have a positive impact on urban temperatures. Due to the rapid expansion in urbanization activities in Kyrenia, N. Cyprus, urban green spaces are decreasing at an alarming rate. Therefore, two studies have been applied; the first of these studies has been conducted on Ziya Rızkı Avenue. In this first study, temperature differences of shading with and without trees were measured. Additionally, the second study focused on the temperature differences between urban and rural areas. In the second research, urban and rural spaces were measured concurrently over a period of one month. Both studies clearly prove that green spaces mitigate urban temperatures. In the near future, architects, urban designers and planners should pay attention to green areas, street trees, parks, green roofs and vertical green system establishments

**Keywords:** Urban heat island; green areas; anthropogenic heat; urbanization; Kyrenia, N. Cyprus

## ÖZET

Sanayi Devrimi'nden sonra kentleşme armıştır. Bu kentleşme sürecinin sonucu olarak, bitki örtüsü, çayırlar ve ormanlar yapısal malzemelerle yer değiştirmiştir. Yollar, kaldırımlar, beton zeminler ve diğer sert zeminler gün boyunca güneş ışınlarını emer ve gece saatinde ısını ısısı dalgaları olarak yansıtır. Yeşil alanlar kent yaşamında önemli rol oynamaktadır. Araştırmaların çoğu, yeşil alanların kentsel ısısı adasının etkisini azalttığını, hava kalitesini iyileştirdiğini, gürültüyü azalttığını ve yağmur suyunu yönettiğini ispatlamıştır. Özellikle yeşil çatılar, yeşil duvarlar, sokak ağaçları ve su yüzeyleri kentsel sıcaklığı azaltma konusunda olumlu etkilere sahiptir. Kuzey Kıbrıs'taki Girne kentinde hızlı şehirleşme faaliyetleri nedeniyle kentsel yeşil alanlar her geçen gün azalmaktadır. Bu çerçevede iki çalışma uygulanmıştır; Çalışmalardan biri Ziya Rızkı Caddesi üzerinde uygulanmıştır. İlk çalışmada, ağaç gölgesi ile ağaçsız kentsel açık alanların sıcaklık farkları ölçülmüştür. İkinci çalışma ise, kentsel alan ve kırsal alan sıcaklık farklarına odaklanmıştır. İkinci araştırma kapsamında bir ay içinde kentsel ve kırsal alanlar aynı anda ölçülmüştür. Her iki çalışma da yeşil alanların kentsel sıcaklıklarını azalttığını açıkça kanıtlamaktadır. Yakın gelecekte mimarlar, kentsel tasarımcılar ve plancılar yeşil alanlara, sokak ağaçlarına, parklara, yeşil çatılara ve dikey yeşil sistem uygulamalarına önem verilmelidir.

**Anahtar kelimeler:** Kent ısısı adası; yeşil alanlar; antropenetik ısısı; şehirleşme; Girne: Kuzey Kıbrıs

## TABLE OF CONTENTS

<b>ACKNOWLEDGMENTS.....</b>	i
<b>ABSTRACT.....</b>	iii
<b>ÖZET.....</b>	iv
<b>TABLE OF CONTENTS.....</b>	v
<b>LIST OF FIGURES.....</b>	vii
<b>LIST OF ABBREVIATIONS.....</b>	viii

### **CHAPTER 1: INTRODUCTION**

1.1 General Consideration.....	1
1.2 Overview of the urban heat island.....	2
1.3 Overview of anthropogenic heat effect and greenhouse gases.....	5
1.4 Urban heat island issue in Nicosia, Cyprus.....	6
1.5 Urban heat island issue in New York, USA.....	6
1.6 Aim of the study.....	7

### **CHAPTER 2: LITERATURE REVIEW**

2.1 Global warming and climate change .....	8
2.2 Effect of green spaces on urban heat island .....	8
2.3 Urban heat island mitigation.....	9
2.4 Green roof and vertical green walls.....	10
2.5 Green roof components.....	12
2.6 Mitigation effects of green roofs.....	13
2.7 Mitigation effects of public green spaces .....	14

### **CHAPTER 3: MATERIAL AND METHODS**

3.1 The climate of Cyprus.....	17
3.2 Study area: Kyrenia.....	19
3.3 Data collection .....	20
3.4 Research methodology .....	20

**CHAPTER 4: RESULTS AND DISCUSION**

4.1 Green shade area and gray area temperatures .....	24
4.2. Urban area and less urbanise area temperatures.....	25

**CHAPTER 5: CONCLUSION**

5.1 Conclusion.....	30
---------------------	----

<b>REFERENCES</b> .....	32
-------------------------	----

**APPENDICES**

<b>Appendix 1:</b> Green shade area and gray area temperatures .....	38
--	----

<b>Appendix 2:</b> Less urbanise area and urban area temperatures .....	62
---	----

## LIST OF FIGURES

<b>Figure 1:</b> The urban and rural population of the world 1950-2030 .....	4
<b>Figure 2:</b> High temperature in urban.....	5
<b>Figure 3:</b> A green wall in Kyrenia city.....	11
<b>Figure 4:</b> Schematic of different green roof components.....	13
<b>Figure 5:</b> Urban street tree function.....	15
<b>Figure 6:</b> Climatologically average annual precipitation over Cyprus for 1961-1990..	19
<b>Figure 7:</b> Elitech RC-5 temperature data logger.....	20
<b>Figure 8:</b> Ziya Rızkı Avenue Kyrenia, Cyprus on GIS Maps.....	21
<b>Figure 9:</b> A view of Ziya Rızkı Avenue Kyrenia, Cyprus.....	22
<b>Figure 10:</b> Atila Street Kyrenia, Cyprus.....	23
<b>Figure 11:</b> Tree shade and gray shade temperature on chart.....	24
<b>Figure 12:</b> Less urbanise and urban area temperature difference of altitude 13 m.....	25
<b>Figure 13:</b> Less urbanise and urban area temperature difference of altitude 34 m.....	26
<b>Figure 14:</b> Less urbanise area on GIS Maps.....	27
<b>Figure 15:</b> Urban area on GIS Maps .....	28
<b>Figure 16:</b> Less urbanise and urban area on GIS Maps .....	29

## **LIST OF ABBREVIATIONS**

<b>CO<sub>2</sub></b>	: Carbon Dioxide
<b>°C</b>	: Degree Centigrade
<b>km<sup>2</sup></b>	: Kilo meter square
<b>NC</b>	: Northern Cyprus or North Cyprus
<b>UHI</b>	: Urban Heat Island
<b>UN</b>	: United Nations
<b>m</b>	: Meter
<b>Fig</b>	: Figure
<b>CH<sub>4</sub></b>	: Methane
<b>CO</b>	: Carbon Monoxide

## **CHAPTER 1**

### **INTRODUCTION**

#### **1.1 General Consideration**

Today, half of the global population live in metropolitan areas (Taleghani, 2017). Approximately three billion people now live in urban areas around the world. According to the United Nations, by 2030, 83% of the world population will be living in cities (Mentens et al., 2006). After the industrial revolution, urban areas rapidly expanded and significant changes emerged within their environments. The modern cities replaced vegetation areas with asphalt, concrete, cement, walls, and pavements. This has had an impact on the local urban climate and has contributed to global warming. In particular, the temperature in central parts of cities is higher than the surrounding areas (Alexandri & Jones, 2008). Luke Howard, who was a meteorologist from 1801 to 1841, measured the weather in London area and first identified the phenomenon of the Urban Heat Island (UHI). This phenomenon occurs throughout the year (Taleghani, 2017). During the daytime, construction materials absorb the short solar waves and at night, they are reflected as long waves (Solecki et al., 2005). This observable fact is particularly important for the health of people who live in cities (Alexandri & Jones, 2008). The issue of the urban heat island effect is very important in terms of human life quality and public health (Zinzi & Agnoli, 2012). Heat waves are a natural occurrence which are negatively impacting social life and increasing human mortality in urban areas (Taleghani, 2017). The anthropogenic heat is caused by air conditioning, refrigerators, and vehicle emissions (Rizwanet al., 2008). The albedo and vegetated roofs are effective urban heat island mitigation technologies applied to building roof surfaces. In particular, the increase usage of urban albedo may substantially decrease carbon dioxide emissions in the atmosphere. (Kolokotsa et al., 2013). The largest cooling effects of the cities are created by parks, street trees, vegetative roofs, and green walls (Taleghani, 2017). Green roofs have numerous benefits for urban climates. The green roofs have a positive effect on air pollution, improve air quality, storm water management, biodiversity and reduce noise. During the summer in particular, they have a positive impact by decreasing buildings' energy consumption (Susca et al., 2011).

## **1.2 Overview of the urban heat island effect**

Human population in urban environments are increasing day by day and half of the humans now live in metropolitan areas and this figure is expected to continue to rise. High temperatures in urban areas are known as the urban heat island effect. Temperature differences can be observed when comparing urban areas with the surrounding areas. It is an acknowledged fact that urban areas are generally warmer than rural areas. During the daytime, more solar radiation is absorbed due to the large surface area of tall buildings. The solar radiation is stored as sensible heat. In urban areas, there is less evaporation from soil, trees, and open water, as they have been replaced by concrete, pavements, asphalt and walls. Heated air at the ground level does not dissipate as quickly because there is less wind in the urban areas. Additionally, anthropogenic heat is released by buildings, automobiles and other sources (Waffle et al., 2017).

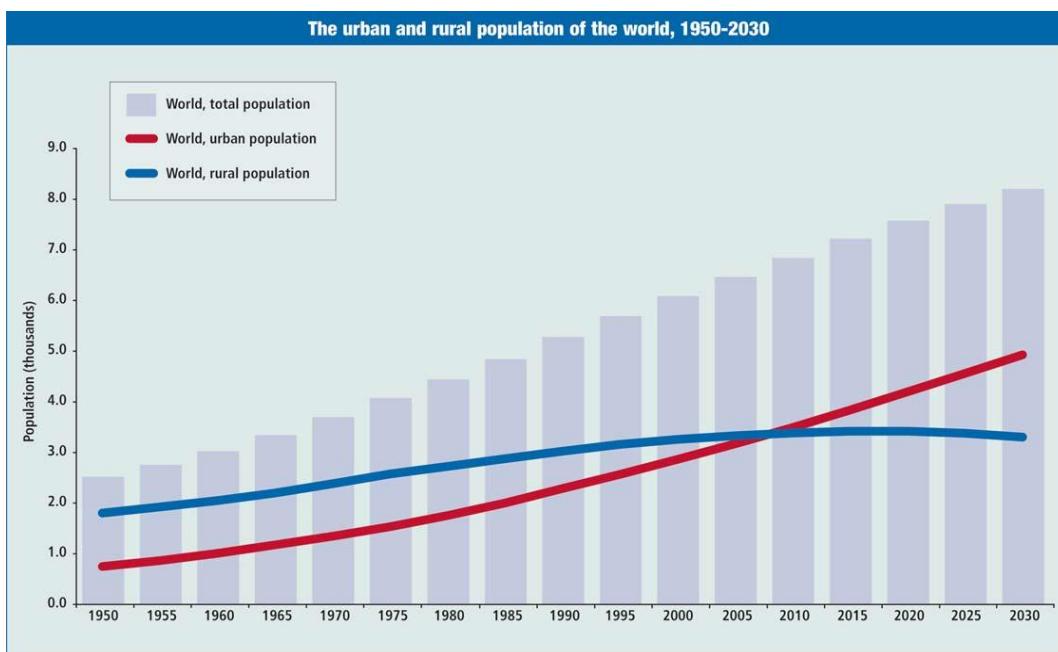
The combination of industrialization and urbanization has improved the daily life materials and comfort levels of human. This has caused many problems for human beings, such as global warming, industrial waste, and air pollution. Industrial activities and the increased usage of synthetic construction materials have significantly affected regional urban areas in a direct manner. This has had a considerable impact on the natural environment and ecology, which have lost the necessary balance. The majority of vulnerable members of communities, such as the elderly, disabled or infirm, are impacted by the problems of urbanization. The major two phenomena can be observed in densely populated urban areas in compared to the more sparsely populated rural regions. The higher temperatures or heat content is called the urban heat island. Higher urban heat is predominantly caused by anthropogenic heat that is released by vehicles, power plants, air conditioners and other heat sources. Also, heat is stored and re-radiated by concrete and complex urban structures. Greater quantities of solar radiation are stored and re-radiated in urban areas. The large volume of construction materials increases the sky view factor. The urban areas have less green areas. Tall smooth structures are another problem of urban areas as they decrease the process of convective heat removal. One suggestion to decrease anthropogenic heat release and make suitable design changes is the use of white

surfaces, cooler roofs, suitable building materials, and suitable building design to decrease high heat intensity (Rizwan et al., 2008).

In modern society, the vast proportion of the global population lives in urban areas and there is an increasing tendency for people to choose urban life. The environmental and urbanisation issues are expanding at a significant rate on a global scale. The level of carbon dioxide emissions is a very important issue for modern society, since it not only has a dramatic effect on humans but also another living organisms. Carbon dioxide emissions have hazardous environmental effects. Green areas have significant impacts on decreasing carbon dioxide emissions (Besir & Cuce, 2018).

The rapid growth of cities and the concentration of the population has made the climate vulnerable to change. Consequently, efforts are being concentrated on adapting urban areas to the climatic conditions caused by global warming. According to climate change scenarios, the annual average temperature may raise between 1°C to 5°C by the 2080s (Tumini, 2016). In summer, higher temperatures will be more significant than in winter. In general, urban areas under the influence of urban heat islands experience an increase temperature in comparison to their surrounding areas. The impact of climate changes is more significant on urban microclimates than rural areas. Urban morphology, soil materials, anthropogenic emissions and vegetation have an influence on the environmental performance at a micro scale and the intensity of the urban heat island effect can vary as a result of meteorological, location and urban characteristics (Tumini, 2016).

The United Nations has reported that 54% of the human population lives in urban areas and this rate is rising by 1.8% on an annual basis (**Fig: 1**).



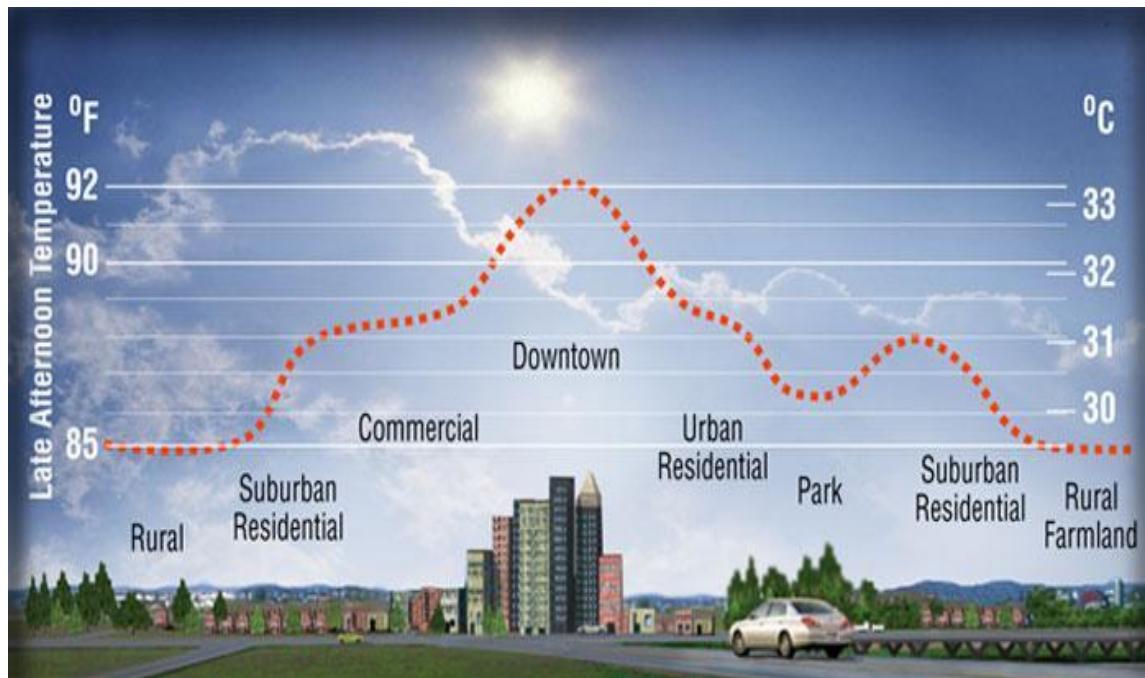
**Figure 1:** The urban and rural population of the world 1950-2030

([http://www.un.org/esa/population/publications/WUP2005/urban\\_rural\\_graph2.jpg](http://www.un.org/esa/population/publications/WUP2005/urban_rural_graph2.jpg))

In 2050, it is anticipated that the rural population will decrease to one third of its current levels. The increasing human population has caused significant modifications in the urban and surrounding landscapes, affecting environmental and climatic conditions. The urban heat island effect and dynamics are well known and climatic processes have been intensely studied. The air temperature variations associated with the urban heat island intensity depend on factors such as the structure and design of buildings and their densities. Urban surfaces are characterized by high heat absorption of urban surfaces and low albedo in comparison to rural areas. The generation of greenhouse gases and dust from industrial processes and anthropogenic activities contributes to the increase in air temperatures, and affect wind flow speed and air quality. The main solution explored in order to mitigate the effects of urban heat islands is to increase the number of vegetation areas. Vegetation in urban areas mainly regulates the climate by shading, carbon dioxide sequestration and evapotranspiration (Colunga et al., 2015).

One of the most important environmental problems for high density urban areas is global warming and the increasing urban populations cause urban heat islands. The phenomenon

of the urban heat island is defined as the urban temperature being generally higher than that of the surrounding rural areas. The explanation for this is that during the daytime, solar radiation is stored in urban canyons, whereas at night, the long waves are released as heat radiation (**Fig: 2**) (Hu et al., 2016).



**Figure 2:** High temperature in urban areas (AboElaata, 2017)

### 1.3 Overview of anthropogenic heat and greenhouse gases

The most abundant anthropogenic greenhouse gas concentration is carbon dioxide (CO<sub>2</sub>), which is increasing globally. The anthropogenic emissions are originating from road traffic and local heating with natural gas, oil or coal impact the CO<sub>2</sub> exchange over cities. Nowadays, more than 70% of the energy related to global greenhouse gases is attributed to cities. It is expected that by 2030, this will increase to 76% due to artificial surfaces, fossil fuel combustion and traffic volume (Kar et al., 2018).

Therefore, the problem of mitigating CO<sub>2</sub> concentration in urban areas is considerable. Urban green spaces have a significant role in the local carbon cycle. Urban green areas, particularly trees, can positively affect air quality. Green plants remove the CO<sub>2</sub> by storing carbon through photosynthesis to form plant biomass. Furthermore, green areas have a recreational role in urban areas as their positive social and psychological effects improve

citizen's quality of life. In urban areas, parks and green areas are of strategic importance for life quality. People's experience of green areas and urban park may reduce stress. Additionally urban green areas can better contribute to reducing external noise from road traffic (Pace et al., 2018).

It is undeniable that the world is becoming warmer. The temperature increase has coincided with the industrial revolution and burning of fossil fuels. One of the products of burning fossil fuels is the release of carbon dioxide. Carbon dioxide is one of the atmospheric gases that ensure that terrestrial energy does not escape into space. Resultantly, higher temperatures are caused due to the greenhouse effect. Human activities related to the burning of fossil fuels have increased the carbon dioxide levels in the atmosphere by 32% since 1750. It is expected that carbon dioxide emissions due to fossil fuel burning will continue to increase (Rowe, 2011).

#### **1.4 Urban heat island issue in the world**

A study conducted in United States focused on the positive effect of green areas, using metropolitan areas and high dense constructed areas. The high temperature was monitored in four different areas of metropolitan area. The study has proved that temperature difference of 2°C. There were differences between the most and least vegetated areas, as well as those with vegetation and those with man-made building materials. The study used CO<sub>2</sub> equivalent as an indicator to observed effect on climate. The study equates surfaces with light colour and those constructed with black, white and vegetated roof surfaces. As a result of the analyses, the study has proven that vegetated surface had light impact than other surfaces (Susca et al., 2011).

#### **1.5 Urban heat island issue in Nicosia, Cyprus**

The daily meteorological data from 1983-2010 have been used to prove that the urban heat island effect exists in Nicosia, Cyprus. Daily temperature values have been analysed from three decades, namely 1983-1990, 1991-2000 and 2000-2010. Meteorological stations in both urban and rural areas have been used. The study has proven last decades analysis

increased in intensity by 6.8 °C for 1983-1990, 6.2 °C for 1991-2000 and 3.5 °C for 2001-2010. The study has also examined the urban heat island seasonally in terms of the winter and summer periods. The analysis proves that heat waves phenomenon occurs in cold months when the wind was less. Daily analysis for a period of one year showed that the intensity of the heat waves was sense day time (Theophilou & Serghides, 2014).

### **1.6 Aim of the Study**

N. Cyprus has had a fast urbanization process since the late 1980's. Urban environments are increasing; on the other hand rural and natural environments are lessening day by day in N. Cyprus. Kyrenia is one of the cities that are experiencing rapid and mostly an unsustainable urbanisation process. As a result of this situation, physical, environment and natural conditions are changing in Kyrenia. The majority of research conducted has proven that in urban areas around the world, air temperatures are higher than surrounding areas. Therefore, this study has been conducted to demonstrate that street tree shade mitigates the urban air temperature. Additionally, within this research another study has been conducted to prove that the city of Kyrenia has a higher temperature than its surrounding areas.

## **CHAPTER 2**

### **LITERATURE REVIEW**

#### **2.1 Global warming and climate change.**

Climate change has direct and indirect effects on public health. The extreme weather changes have direct effect on air quality, drinking water quality, disease, food insecurity and ecological changes are indirect effects. Studies have proven that there has been an increase in heat-related mortality rates, with high rates in Southern Europe due to the higher warming trend in this region. In particular, heat-related deaths among the elderly are more common when there is an increase in temperature, heat waves or summer peaks. Also, the poor air quality of the urban areas may lead to amplified disease and mortality (Zachariadis, 2012). Heat waves have a negative effect on sleep quality along with a decrease in labour productivity. Furthermore, this also leads to a considerable increase in power use as there is more demand for air conditioning. These are some of the negative impacts which cause of high temperatures, which particularly occur in urban areas (Selverova et al., 2017). The growth of the urban population has also led to a rise in anthropogenic greenhouse gas emissions (Buchholz et al., 2016).

#### **2.2 Effect of green spaces on urban heat islands.**

The study has focused on to show that green areas and vegetated surfaces have significant role to mitigate the phenomenon. Especially in metropolitan areas harbour high dense artificial surfaces such as cement, wall, pavement and asphalt. Unfortunately, the growth of the metropolitan inhabitants, concrete materials, and various artificial materials are increasingly causing a shortage of green areas and this cause high temperature within the city than surrounding areas. In metropolitan areas have been use green areas and improve the vegetated lands to reduce the heat waves (Nastran et al., 2018).

Open urban green spaces are primarily vegetate areas with a relatively spare tree canopy, such as urban parks, sporting fields. Trees that provide the greatest shade during hot summer days can also trap heat under their canopy at night. Tree canopies are the optimal solution for shading both canyon surfaces and the pedestrian spaces, and they also provide

evapotranspirative cooling. Increasing the total area of green space within an urban environment may significantly reduce temperatures at the urban scale (Norton et al., 2015).

### **2.3 Urban heat island mitigation**

One of the most effective urban strategies that are used to mitigate urban heat islands is vegetation. In urban areas, urban heat islands have been mitigated with green spaces and vegetation. Dense urban green areas and street trees have a significant role in decreasing urban temperatures. Evaporation from trees and vegetation in urban areas causes cooling. The soil that is covered with trees and vegetation does not trap the heat, therefore the pedestrian areas are cooler. Green areas improve thermal performance through reflectance factor. Urban green areas are one of the effective tools that absorb the heat. Most of the research has compared green areas and non-green area surfaces. Green areas reduce the outdoor temperatures in urban areas to the levels that are lower than non green-areas (AboElaata, 2017).

Different research has focused on analysing the effects of cool materials on the air temperature. These materials have low levels of absorption of solar radiation, less trapped heat and high infrared emissions that enable a cold surface temperature. Green roofs incorporate vegetation placed on the roofs of building that decrease the air temperature through evapotranspiration. Also, green roofs have provided many other benefits, including improved air quality, reduction in the transmission of noise within buildings and increased thermal resistance of the roofs. Additionally, green roofs can be transformed into vegetable gardens that are beneficial for local food production (Battista et al., 2016).

Increasing green spaces have shown that it is effective for decreasing urban temperatures. One of the possible ways to achieve this aim is through using green roof systems. The implementation of green roofs is increasingly popular due to their positive effects and functions. Another reason for the implementation of the green roofs widely used in the urban environment is their thermal effects (Selverova et al., 2017).

The construction of green roofs is an increasingly popular measure that brings numerous benefits. Green roofs can form a green corridor and create a habitat for wildlife, while

strongly reducing the effects of acid rain. Furthermore, green roofs have a significantly positive influence on the minimization of urban heat islands. Another important benefit of vegetated roofs is the reduction of storm water and air pollution, which contributes to the improvement of the building's energy performance (Theodoridou et al., 2017).

Additionally living roofs have numerous economic and social benefits as well as clear environmental advantages. These are rain water control reducing cost of energy, clean air and water. Also, it can result in decreased noise pollution, increased natural habitats, a increase of green areas in metropolitan areas (Perini & Perez, 2018).

## **2.4 Green roof and vertical green walls**

The green roof is a roof that constructed on top of buildings with vegetation. Green roofs provide many benefits that can help compensate the negative aspects of pollution, particularly in urban environments. A green roof can improve storm water management with decreased runoff and improved water quality, conserve energy and can alleviate the urban heat island. Green roofs increase the life of building roof, reduce noise and air pollution, increase urban biodiversity by providing a habitat for wildlife, provide a more aesthetically pleasing environment. Green roofs are categorized into two types, namely intensive` and `extensive`. The intensive green roofs are predominantly arranged as public places and may include trees, shrubs and hard ground similar to landscapes found at ground level. The intensive green roofs largely require growing medium depths of more than 15 cm and need intense maintenance. The extensive green roofs only require minimal maintenance and are generally constructed with a growing medium depth of less than 15 cm. The plant choices are limited to grasses, herbaceous perennials, annuals and drought tolerant succulents such as sedum (Rowe, 2011).

Green roofs, also called living roofs or eco-roofs, use the foliage of plants to protect the building environment. The green layers limit the solar radiation and the air temperature before entering the buildings. The absorption of the solar radiation by the vegetation has to support their life-cycle together with photosynthesis, evapotranspiration, respiration. One of the characteristics of green areas is to re-radiate heat transfer through the roof surfaces

(Zinzi & Agnoli, 2012).

Vertical green wall systems are given particular attention in densely populated urban areas in order to solve the energy and environment problems in those areas. Vertical green wall surfaces offer considerable energy saving opportunities and environmentally friendly systems. Green wall systems have ecological benefits such as for human and environment. The vertical vegetated walls have significant role to mitigate noise pollution, trap air dust and carbon footprint. Green wall systems also have a positive effect on human psychology by improving the aesthetic appearance (**Fig: 3**) (Prodanovic et al., 2018).



**Figure 3:** A green wall in Kyrenia (photo taken by Mehmet Atak)

Many urban areas across the world are incorporating common green roofs, walls and facades. The increasing urban population is now realizing the potential benefits of these living green roof systems which improve the environmental quality of urban areas (Dunnet and Kingsbury 2008). Living roofs are constructed in a series of layers, each of which

performs a specific function (Suparwoko & Taufani, 2017). Living roofs are separated into three types. These are intensive green roof, semi intensive green roof and extensive green roofs. Intensive green roofs have a highest growing medium that ranges between 20-200 cm and incorporate more plants types, leading to more labour, more costs and very heavy. The greater soil depth can be used to grow larger vegetation such as bushy plants but this requires more maintenance. The green roof which has 15 cm growing medium is called extensive living roofs. These are having low maintenance, light and less cost. As a result of the thinner growing medium, has grown less variety of plants which these are moss, cactus and succulents. Semi intensive roofs need frequent maintenance and sustain high costs. Around the world, extensive green roofs are the most commonly found type (Jim et al., 2018).

Green walls are generally internal or external vegetated wall in supported vertical systems. Many vertical green walls slot in vegetation, the growing medium, irrigation and drainage into a single system. The scheme of a green wall is shown in Figure 3, in which green facades have been formed by growing plants up and across the facade of a building. The structure can be supported independently from the building. Climber plants that anchor themselves to a building structure by twine stems enable a green facade to be installed in front of concrete walls or different structures (Köhler, 2008).

## **2.5 Green roof components**

Green roofs consist of several component levels using a top to bottom design; vegetation can include trees, grass, weeds, shrubs and herbs. The growing medium or substrate is a combination of peat moss, vermiculite, stones and soil. In metropolitan areas vegetated roofs support floral diversity as well as faunal. Green roofs keep different type of small plants and these support biodiversity. Green roofs are constructed from several components, as shown in **Figure: 4** (Rumble et al., 2018).



**Figure 4:** Different green roof layers (Vijayaraghavan, 2016).

## 2.6 Mitigation effects of green roofs

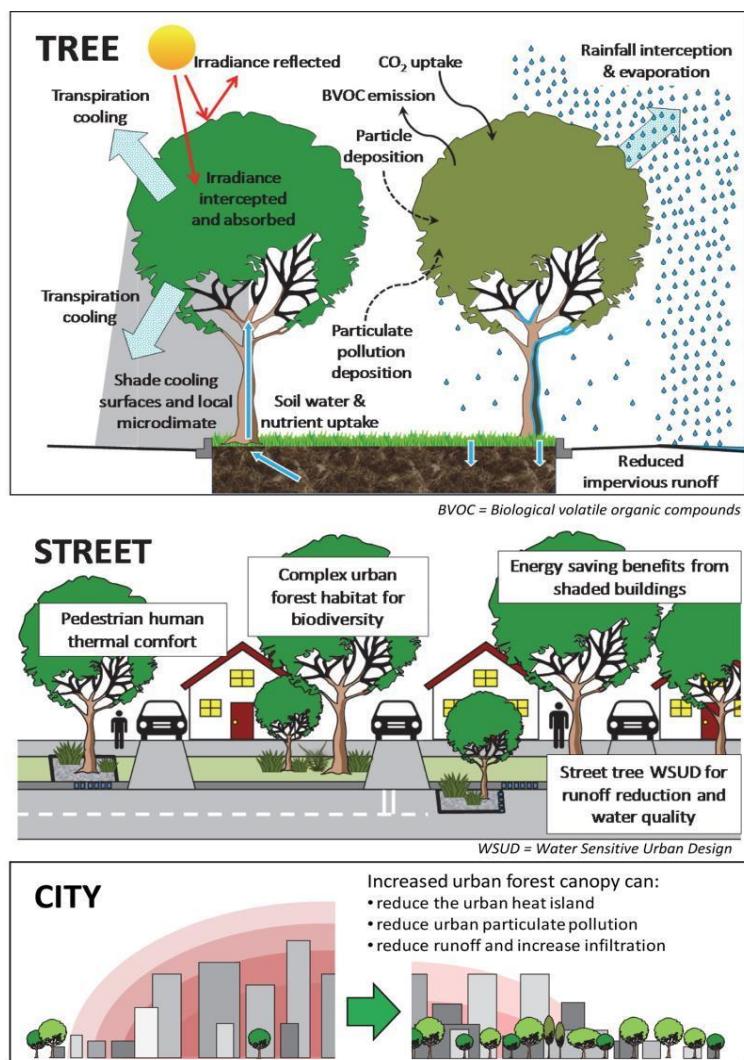
Green roofs or vegetated roofs have been proven to mitigate rain water runoff volume and have the capacity to decrease the heating and cooling loads of buildings. The benefits of the widespread integration of vegetated roofs include fully separate municipal management practices for rain water and air pollution control (Clark et al., 2008).

Living roofs managing storm water also decrease the flooding. Rain water is turned back to air by plants. Each plant has an important role to keep water and transpiration. Green roofs decrease building energy demand by improving the thermal performance of the buildings. Living roofs are a simple solution that mitigates the problem of urban heat islands. The growing medium vegetation also clean and decontaminate the rain water. Green roofs can also minimise the noise from road traffic railways and air traffic. Green roofs are popular air pollution mitigating technologies in urban environments. Green roofs have an aesthetic view at the top of the buildings when compared with bland flat roofs. Vegetation areas create a habitat for biodiversity. Green roofs provide a supportive environment for birds to nest, and insects and other plants to grow (Vanstockem et al., 2018).

## **2.7 Mitigation effects of public green spaces**

Decreasing of metropolitan area heat waves are significant factor in improving residential welfare and also the life quality. The potential heat waves reducing application is to increase green areas and tree canopy cover. Increased green area covers support more shade area and surrounded air through the process of evapotranspiration. Green areas have effective segment for aesthetic in metropolitan areas with street view. Street trees could mayor greenness for urban covering and for air quality. Urban areas have focused on the benefits of street trees on street microclimates (Sanusi et al., 2017).

Street trees have been recognized as one way of decreasing the concentration of gaseous and particulate pollutants. In urban areas, vegetation infrastructure and particularly the tree components significantly influence the carbon sequestration capacity. Another important environmental and human health problem can occur as a result of summer heat waves, urban heat islands and gradually warming global climate. Green infrastructure is identified as vegetation systems that are intentionally designed to promote environmental quality. They decrease the intensity of heat islands by providing shade and evapotranspirational cooling. The most effective and least costly approach to urban heat island mitigation is by planting urban trees (**Fig:5**) (Livesley et al., 2016).



**Figure 5:** Urban street tree function (Livesley et al., 2016).

Numerous studies have suggested that new materials for buildings could contribute to air pollution reduction. It has also been suggested that planting vegetation has an important effect on air pollution. Planting trees is not only advantageous for urban areas because of the decrease in air pollution but it also has an impact on other social needs such as recreation, culture and aesthetics without additional costs. Urban trees are an important element in improving the urban environment. Numerous studies have identified and quantified various ecosystem services provided in the urban context such as decreasing air pollution due to the dry deposition function regulation of air temperature with the consequent reduction of the urban heat island and carbon sequestration and the subsequent mitigating effect on climate change (Selmi et al., 2016).

Case study has been carried out on the subject of “cooling effect of green spaces” in Portugal and it was found that green spaces were cooler than surrounding areas in densely urbanised area of Lisbon (Oliveira et al., 2011).

## **CHAPTER 3**

### **MATERIAL AND METHODS**

#### **3.1 The climate of Cyprus**

Cyprus is an island situated in the Eastern Mediterranean region and is under the Mediterranean climate zone. Winters are generally mild and summers are dry. Average daytime temperatures during winter range between 12-15 °C. The average maximum temperature in coastal regions is around 32 °C in summer. The maximum temperature often reaches 40 °C in the inland regions. The wet season occurs between November and March, with most of the rain falling between December and February. Rainfall is generally associated with the movement of moist maritime flows to the North, particularly occurring over higher elevations. The arid summer characteristics of the region have significant implications in several socio-economic sectors. In the last few decades, Cyprus has been experiencing the worst water shortage on record (Giannakopoulos et al., 2010).

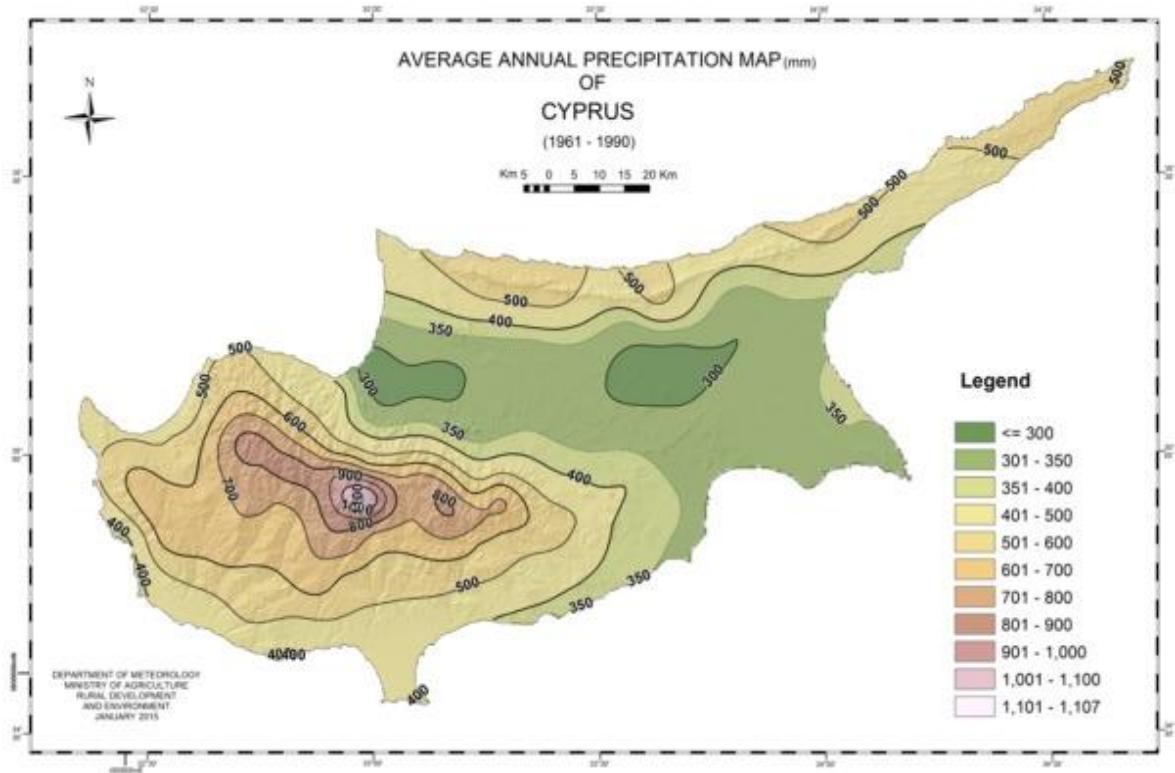
The island covers a total of 9,251 km<sup>2</sup>. Cyprus has a semi-arid climate and rainfall is the only source of fresh water on the island (Darilmaz, 2017).

The island has two mountain ranges, one of which is the Troodos Massif in the southwest region of the island with an elevation of 1,951 meters, and the other is the Pentadaktylos range situated along the northern coast at an elevation of 1,000 meters. These two mountain ranges provide the island with high topographical variability. Cyprus is characterised by a Mediterranean climate. The autumn and spring seasons are relatively short. October, April and May are characterized by variability and rapid changes in precipitation and temperature. The Troodos Massif and Kyrenia mountain ranges have important roles in defining the weather on the island. In winter, snow falls for several weeks at a considerable depth on the high northern slopes. The Kyrenia range and lowlands rarely experience snowfall. Meteorological data indicates a general increase in overall temperature. There has been a slight decrease in precipitation with a corresponding increase in drought (Griggs et al., 2013).

Cyprus is 750 km from Greece, 350 km from Egypt, 95 km Syria and 65 km from Turkey. In Cyprus, there are two prominent mountain regions one of which is the Beşparmak Mountains along the northern coast and the other mountain range is the Troodos Mountains that runs from east to west. In general, the wind comes from a westerly direction. Most of the rainfall occurs between December and March. The coasts on the North and Western parts of the island are always impacted by the weather changes in Europe. The Southern and Eastern coasts of the island are influenced by the climatic changes of North Africa and the Arabian Peninsula. Kyrenia is largely characterised by a hot and humid climate due to its geographic location. The humidity is relatively high in Kyrenia because the mountains are close to the urban areas. The region also experiences cooler winds and increased rainfall (Ozay, 2005).

In summer, Cyprus is generally under the influence of a shallow trough of low pressure extending from the Asian continent. The season is marked by high temperatures and almost cloudless skies. In winter, Cyprus is under the low air pressure belt from North Africa and high air pressure from Eurasia that traverses the Mediterranean from west to east. This can create periods of disturbed weather that usually last for one day and produce most of the annual precipitation. The clear skies and amount of sunlight generate large seasonal and daily differences between temperatures of the coastal and inland regions. These cause considerable local effects, particularly by the sea and along the coast (Price et al., 1999).

On average, the highest precipitation amounts are recorded on the mountainous areas of the island. The coastal areas experience the lowest precipitation in Cyprus. Between 1961 and 1990, the highest rainfall values were distributed over the central Troodos mountain range (**Fig: 6**) (Katsanos et al., 2015).



**Figure 6:** Annual precipitation of Cyprus for the period 1961-1990

### 3.2 Study area: Kyrenia

Kyrenia is largely characterised by a hot and humid climate due to its geographic location. The humidity is relatively high in Kyrenia because the mountains are close to the urban areas. The region also experiences cooler winds and increased rainfall (Ozay, 2005). Kyrenia district general vegetation is olive, citrus and almond trees. Kyrenia coastal zone covered with maquis and pine forest (Fuller et al., 2016). Kyrenia district population is 69,163 and Kyrenia Municipality population is 33,207. Monthly maximum and minimum air temperatures in selected stations were measured in 2009 January 19.7 – 5.1, August 37.8 – 23.4, in 2010 January 23.5- 6.0, August 38.8 – 24.1 in 2011 January 19.2 – 9.8, August 37.0 – 23.9, in 2012 January 19.6 – 4.1, August 38.3 – 23.1, in 2013 January 19.9 – 2.3, August 39.0 – 22.4 decree Celsius. Kyrenia precipitation were measured in 2009 January 85.5, in 2010 January 133.2, in 2011 January 177.8, in 2012 January 162.8, in 2013 January 91.4 millimetres ( KKTC istatistik yılı, 2016).

### **3.3 Data collection**

The research conducted in the city of Kyrenia was performed using a temperature data logger. The particular model of data logger used was an Elitech RC-5 USB. A total number of four temperature data loggers were used. This temperature data logger has product features which include a smart and compact design, portability, integrated USB interface, and direct connectivity to a computer. It is suitable for temperature recording in a variety of small spaces. It has a multi-functional LCD display, with a recording capacity of 32,000 points. The temperature range is between -30°C and +70°C with an accuracy of  $\pm 0.5^\circ\text{C}$  (**Fig: 7**).



**Figure 7:** Elitech RC-5 temperature data logger

([http://www.elitech.uk.com/temperature\\_logger/Elitech\\_USB\\_Temperature\\_Data\\_logger\\_RC\\_5\\_147.html](http://www.elitech.uk.com/temperature_logger/Elitech_USB_Temperature_Data_logger_RC_5_147.html))

### **3.4 Research methodology**

Two different research studies were conducted in Kyrenia. The first study was administered to collect temperature data in densely urbanised area of Kyrenia. In order to

find out if there is any effect of green space on urban temperatures. Kyrenia is an attractive city located in the North of Cyprus that is popular with international tourists throughout the year. Kyrenia is at the centre of Kyrenia district which has numerous public offices and private business. For this reason, Kyrenia District residents visit the city centre to take care of their formal affairs, such as at government offices, banks, etc, (**Fig: 8**).



**Figure 8:** Ziya Rizki Avenue Kyrenia, Cyprus on GIS Maps

A: Green area thermometer. B: Grey area thermometer.

In the first study experiment has been conducted on Ziya Rizki Avenue. This avenue is a very active street, which has many businesses, banks, shops and public offices. Data loggers were used in part of the avenue having mature trees and also were used opposite site of the street which did not have any tree plantations with two replicates (**Fig: 9**)



**Figure 9:** A view of Ziya Rizki Avenue Kyrenia, Cyprus

Most of the shops on this avenue require shading during the summer period. The study applied on this avenue used two thermometers to measure the differences between the tree shading side and the grey shading side. The two thermometers were hung under a tree and under the grey shading at the same altitudes that 17 metre. The thermometers were programmed to measure the temperature every ten minutes and they were started at the same time. The temperature measurement process lasted one week from the 20th to 27th September in 2017. The thermometers started to measure at 11:45 am on the 20th September 2017 until 10:25 am on the 27th September 2017. Each thermometer collected 1,001 data points, with a total of 2,002. All tree shade and gray shade temperature data are shown in **Appendix: 1**. All the data have been transferred to computer and a comparison has been made. Temperature differences are clearly shown in the chart.

The second study was applied to determine the temperature differences between less urbanise areas and urban areas. A total of four temperature data loggers were used in this study; two thermometers in urban areas and the other two in less urbanise areas. The locations were selected based on their altitudes. The altitude of one of the locations was 13 meters, while the other was 37 meters. At both altitudes, the thermometers were hung under trees in an urban area and a less urbanise area. The thermometers were programmed to measure the temperature every fifteen minutes and all thermometers started recording at

the same time. The measurement process lasted for one month between 18th October and 20th November in 2017. The data have been transferred to computer and a comparison has been made. In the urban area at an altitude of 13 meter on Atilla Street, the thermometers were placed under trees. This street is also known as Old Kyrenia, characterised by narrow streets and two storey buildings. This street has less greenery than other parts of the city because this residential area is very old and the buildings were constructed in stone. The houses of this street have no patios or gardens (**Fig: 10**).



**Figure 10:** Atila Street Kyenia, Cyprus

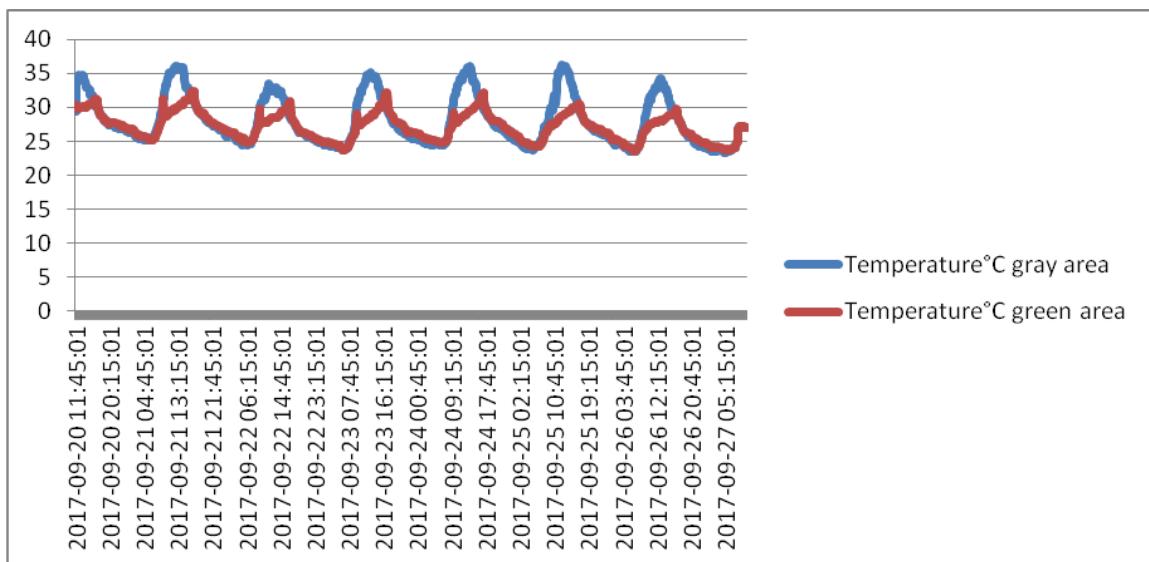
At the same altitude, another thermometer was hung on Bülbüller Street in a less urbanise area. The houses have two floors and the houses all have patios and gardens. Additionally, the street width was larger than Atilla Street. At the altitude of 34 metres, the urban area thermometer was hung under a tree on Mücahitler Avenue. On this avenue, the heights of the buildings range from two to ten stories. Most of the buildings have gardens. At the same altitude, a thermometer was placed under a tree on Şht. Süleyman Recep Street. This street is located in a less urbanise area where the houses have patio and gardens. The houses have two floors. All thermometers data have been transferred to the computer and shown in **Appendix: 2**.

## CHAPTER 4

### RESULTS AND DISCUSSION

#### 4.1 Green shade area and gray area temperatures

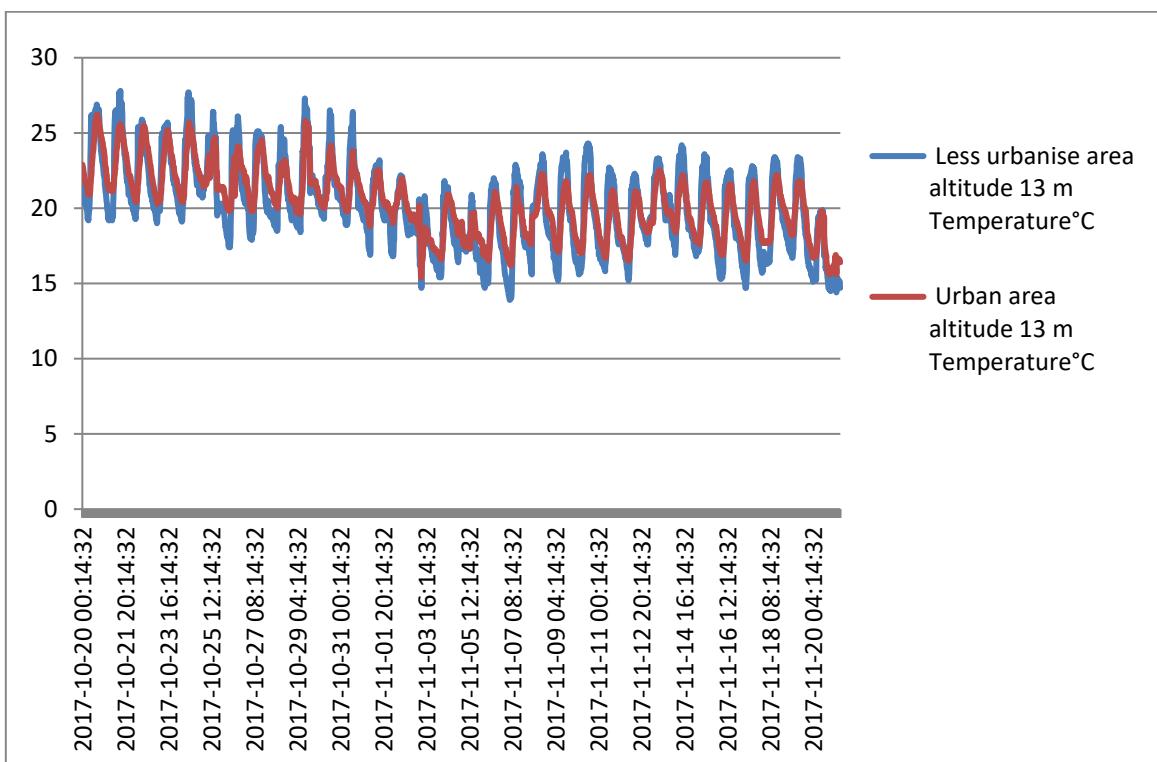
During the week, it was recorded that the daily temperature on Ziya Rızkı Avenue on the side with the large trees was less than the side without trees. The differences were approximately six degrees Celsius during the daytime. However, at night, the temperatures of both sides of the street were the same degree. On the chart, the blue line indicates the temperature of the grey area. The temperature difference is clearly observed. During daytime, the tree shade temperature is less than the grey shade. The shops that do not have tree shade are therefore required to use some form of sunshade (**Fig: 11**).



**Figure 11:** Tree shade and gray shade temperatures on chart.

#### 4.2 Urban area and less urbanise area temperatures

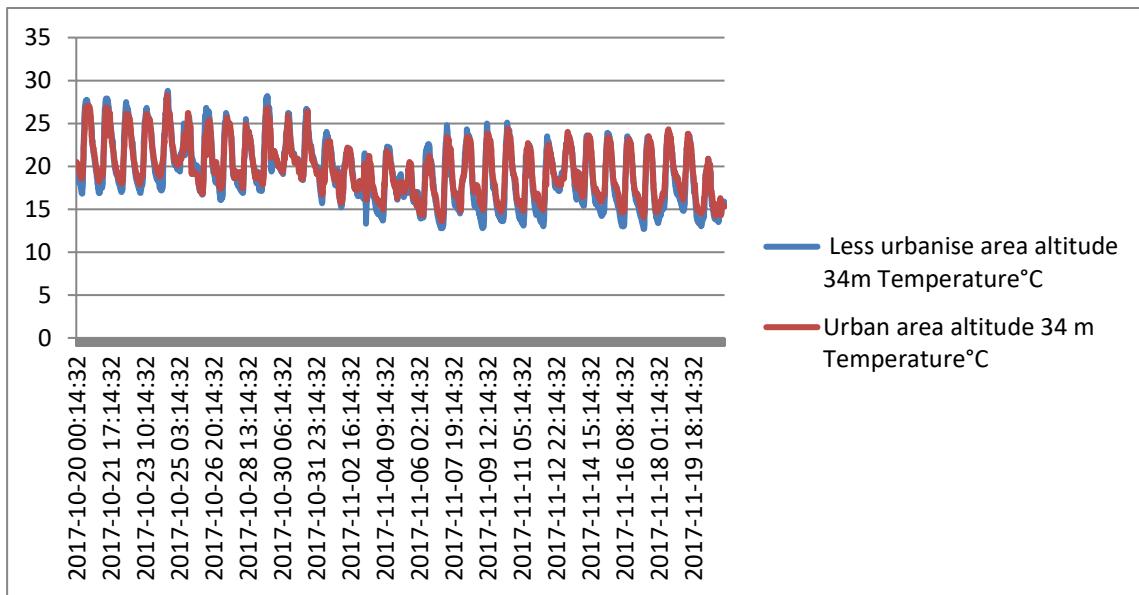
In this part of the research comparison of different temperatures of urban and less urbanise sites has been evaluated. The data clearly shows the old town is warmer at nighttime than the less urbanise areas (**Fig: 12**).



**Figure 12:** Less urbanise and urban area temperature difference at an altitude of 13m.

On the other hand, during the daytime, the less urbanise area is warmer than the urban area because the sun light directly affects the ground and surrounding area. In the urban area during the daytime, the sunlight is unable to directly reach the ground with the result that the temperature is lower than the less urbanise area. In the narrow street, the buildings create shade for each other. The real temperature differences occurred during the night-time periods. During the daytime, Atilla Street absorbs sunlight, which is reflected at night as heat waves. Additionally, Atilla Street does not have any form of green vegetation. For this reason, there is no evapotranspiration on Atilla Street during the day. The narrow street is completely covered by construction materials, walls, asphalt, stones, pavements and there are also many vehicles and air-conditioning units. These are the real factors that increase the air temperature. In the less urbanise area, Bülbüller Street is wider than Atilla Street. All houses have patios and gardens. This street has more green vegetation than Atilla Street and there is more evapotranspiration than Atilla Street. There are less construction materials than Atilla street, which means that less sunlight is absorbed during the day. There are gaps between each of the houses, which enable greater air circulation than Atilla Street. The sky view factor can occur more than Atilla Street during the night-

time. All these reasons lead to a decrease in the air temperature than at the same altitude on Atilla Street. At the altitude of 34 meters, a comparison was made between Mücahitler Avenue in the urban area and Sht Süleyman Recep Avenue in the less urbanise area. The temperature differences are clearly seen on the chart. The blue line shows the less urbanise area temperature. During the daytime, the temperature in the less urbanise area is higher than the urban area (**Fig: 13**).



**Figure 13:** Less urbanise and urban area temperature differnce at 34m altitude.

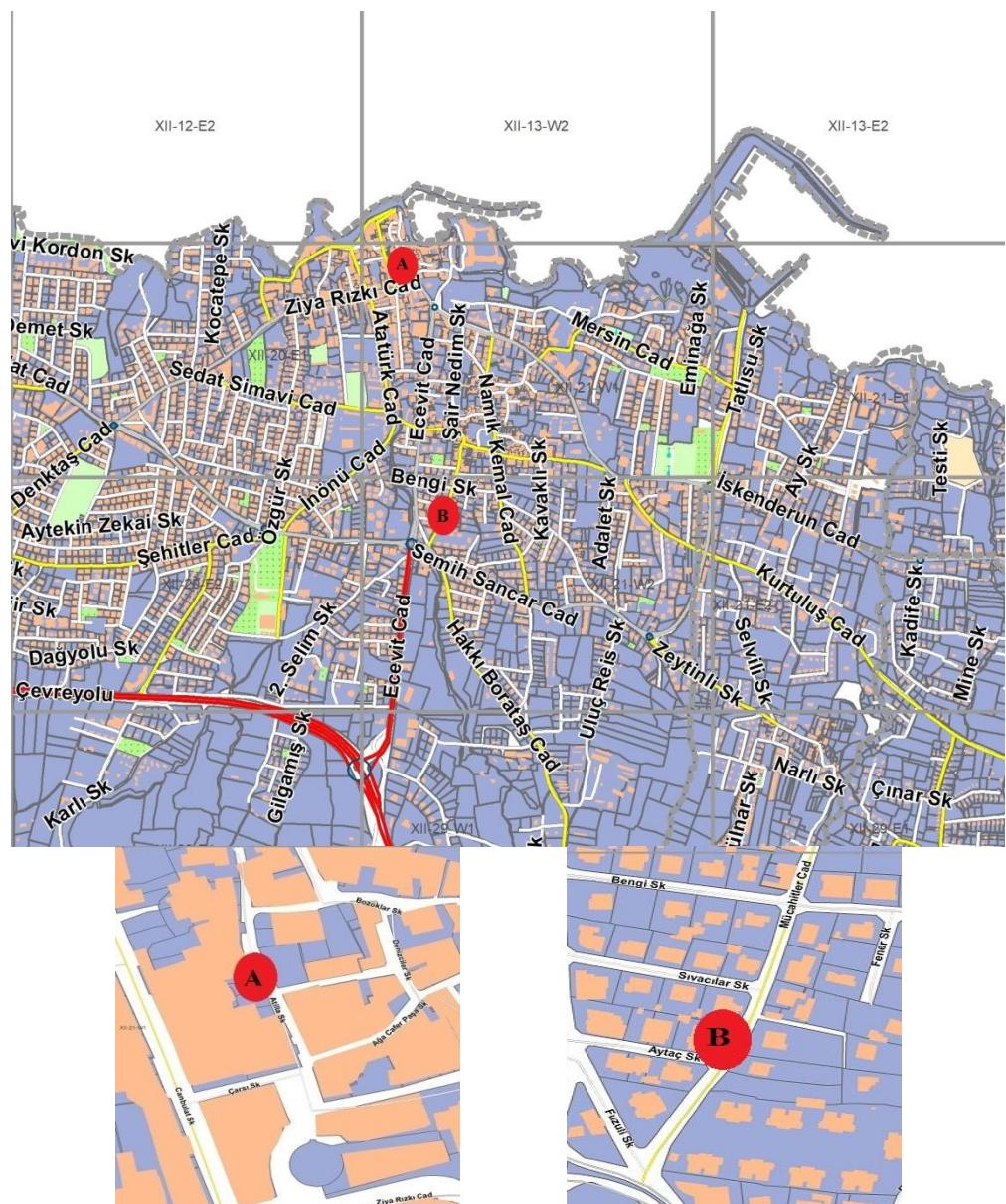
Generally in Cyprus, less urbanise areas have more green vegetation than urban areas. This causes high evapotranspiration and high humidity related to the temperature. There are less construction materials and surfaces than in the urban areas. During night-time, the clear sky factor leads to radiation loss. This cause a decrease in the less urbanise area temperature during the night-time. In urban areas, there are more construction materials consisting of asphalt, pavements and walls. Furthermore, urban areas have more vehicles and air-conditioning units that are related with the increased number of buildings. These kinds of materials increase the anthropogenic heat during night-time periods (**Fig: 14-15-16**)



**Figure 14:** Less urbanised area in Kyrenia on GIS Maps marked in yellow colour

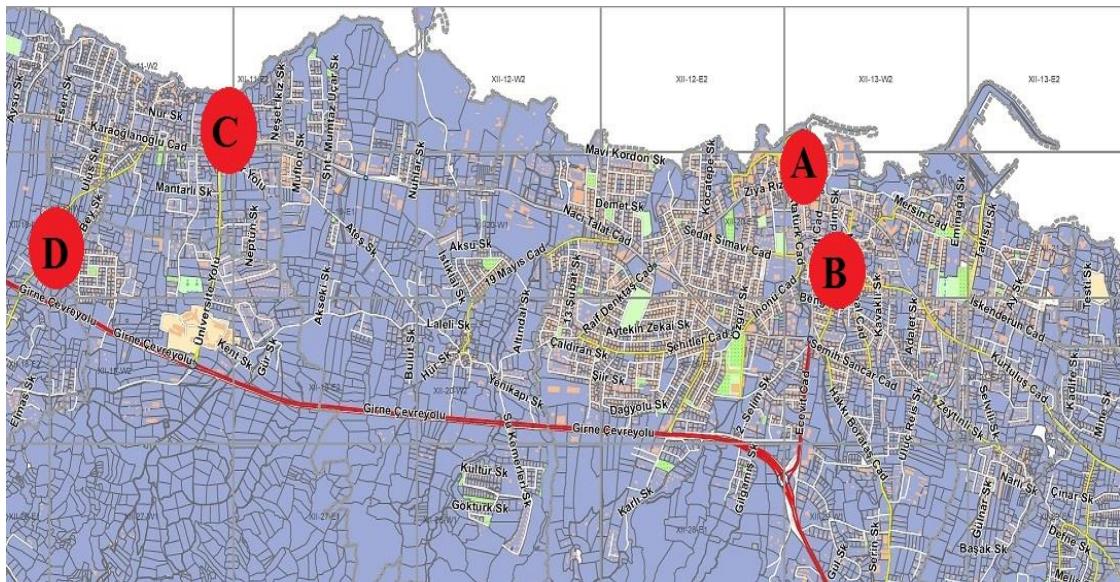
C: Less urbanised area Bülbüller Street altitude 13 m.

D: Less urbanised area Şht. Süleyman Recep Avenue altitude 34 m.



**Figure 15:** Urban area in Kyrenia on GIS Maps marked red colour

A: Urban area Atilla Street altitude 13 m. B: Urban area Mücahitler Avenue 34 m.



**Figure 16:** Less urbanise and urban area of Kyrenia on GIS Maps marked in red colour

- A: Urban area Atilla Street altitude 13 m.
  - B: Urban area Mücahitler Avenue 34 m.
  - C: Less urbanise area Bülbüller Street altitude 13 m.
  - D: Less urbanise area Şht. Süleyman Recep Avenue altitude 34 m.

Two different types of study applied in Kyrenia. The first study shows and proves that mature urban trees canopy reduce the air temperature and mitigate the urban heat island in Ziya Rızkı Avenue as micro climate. The second study also proves that densely urbanised areas night temperature higher than surrounding urban areas. Unurbanised area has more tree and vegetation area that night temperature less than urban area. Both of the studies are comparable and the results match with Bowler et al. (2010).

## CHAPTER 5

### CONCLUSION

#### **5.1 Conclusion**

Today, urban areas around the world are required to pay increased attention to green areas and street trees. In urban areas, the use of street trees and green vegetation has a significant role in mitigating the effects of urban heat islands due to evaporation and shading. In recent decades, Kyrenia, North Cyprus has experienced rapid urbanization resulting in the loss of olive trees, lemon trees, pine trees and vegetation areas. Most of the olive trees and lemon trees have been replaced with concrete. Old houses have been destroyed and ten-storey buildings have been constructed in their place. Consequently, the population of Kyrenia has risen proportionally. In line with the increased population, the number of vehicles has risen due to the increase in CO<sub>2</sub> emissions. In combination, these factors have had negative effects on the climate in Kyrenia. Within this framework in this study the aim was to measure green and grey area temperature, and to measure urban area and less urbanised area temperature. After the introduction in the second chapter, have describe the urban heat island mitigations were evaluated. In the third chapter, material and methods of the study were explained. In the fourth chapter, have shown the measurements of the green and grey area and, urban and less urbanised area measurements were described. In this study, the tree shade and without tree shade air temperature measurements prove that tree shade has a significant impact on the pavement and pedestrians during the daytime. Also, urban and less urbanise area air temperature measurements have demonstrated that during the night-time, urban areas have higher temperatures than less urbanise area. Furthermore, summertime air-conditioning usage is greater than the less urbanised areas, which is also a contributory factor to the elevated CO<sub>2</sub> emission levels. All these factors are gradually decreasing the life quality and stress levels of Kyrenia residents. Urban planners and landscape architects should study the relationship between tree spread and street ratio to provide more shade for pavements and pedestrians. District governors and local municipalities have to pay attention to increase open green areas. As officials or volunteers have to plant domestic trees such as olive, carob, pine, cypress and almond. These kinds of trees have drought tolerant and suitable

for Mediterranean climate condition. Together with tree planting shade areas will increase and they will be mitigating the heat effects. Also carbon will be storage in biomass and carbon dioxide concentration will be decrease in the air. Together with more greenery areas pedestrians and people will be get welfare life conditions in urban areas. More research is necessary for measuring the dynamics of urban heat island effect.

## REFERENCES

- AboElata, A.A.A., (2017). Study the vegetation as urban strategy to mitigate urban heat island in mega city Cairo. *Elsevier, Procedia Environmental Science.* 37,386-395.
- Alexandri, E., Jones, P. (2008). Temperature decreases in an urban canyon due to green walls and green roofs in diverse climates. *Elsevier, Building and Environment,* 43, 480-493.
- Battista, G. Pastore, E.M., Mauri, L., Basilicata, C. (2016). Green roof effects in a case study of Rome (Italy). *Elsevier, Energy Procedia,* 101,1058-1063.
- Besir, A.B., Cuce, E. (2018). Green roof and facades: A comprehensive review. *Elsevier, Renewable and Sustainable Energy Reviews.* 82,915-939.
- Bowler, D. E., Ali, L. B., Knight, T. M., Pullin, A. S. (2010). Urban greening to cool towns and cities: A systematic review of the empirical evidence. *Elsevier, Landscape and Urban Planning.* 97,147-155.
- Buchholz, R.R., Paton-Walsh, C., Griffith, D.W.T., Kubistin, D., Caldow, C., Fisher, J.A., Deutscher, N.M., Kettlewell, G., Riggenbach, M., Macatangay, R., Krummel, P.B., Langenfelds, R.L. (2016). Source and meteorological influences on air quality (CO, CH<sub>4</sub> & CO<sub>2</sub>) at a Southern Hemisphere urban site. *Elsevier, Atmospheric Environment,* 126,274-289.
- Clark, C., Adriaens, P., Talbot, F.B. (2008). Green roof valuation: A probabilistic economic analysis of environmental benefits. *Environ. Sci. Technical,* 42 2155-2161,.
- Colunga, M. Sandoval, V.H,C., Azpiri, H,S,. Escobar, A,G., Soria, H,L,. (2015). The role of urban vegetation in temperature and heat island effects in Queretaro city,

Mexico. *Atmosfera* 28(3), 205-218.

Darilmaz, E., (2017). Aliphatic hydrocarbons in coastal sediments of the Northern Cyprus. *Environ Earth Sci* 76:220.

Dunnet, N., Kingsbury, N., (2008). Planting green roofs and living walls, Portland, *Timber press*.336.

Fuller, Ö.Ö., Merakli, M.K., Gücel, S., (2016). Important plant areas along the Kyrenia Mountains, Cyprus. *Journal of International Scientific Publications, Ecology & Safety*. Volume 10

Giannakopoulos, C., Hadjinicolaou, P., Kostopoulou, E., Varotsos, K.V., Zerefos, C., (2010). Precipitation and temperature regime over Cyprus as a result of global climate change. *Advances in Geosciences*, 23, 17-24.

Griggs, C., Pearson, C., Manning, S.W., Lorentzen, B. (2013). A 250-year annual precipitation reconstruction and drought assessment for Cyprus from *Pinus brutia* Ten. Tree-rings. *International Journal of Climatology*. 2702-2714.

Hu, Y., White, M., Ding, W., (2016). An urban form experiment on urban heat island effect in high density area. Elsevier, *Procedia Engineering*. 169,166-174.

Jim, C., Bai, X., Luo, T., Zou, M., (2018). Effects of green roofs variations on the regional thermal environment using measurements and simulations in Chongqing, China. Elsevier, *Urban forestry and urban greening*. 223-2137.

Kar, S., Kothandaraman, J., Goepert, A., Prakash, G.K., (2018). Advances in catalytic homogeneous hydrogenation of carbon dioxide to methanol. Elsevier, *Journal of CO<sub>2</sub> Utilization*, 212-218.

Katsanos, D., Retails, A., Michaelides, S., (2015). Validation of a high resolution

precipitation database (CHIRPS) over Cyprus for a 30 year period. *Elsevier, Atmospheric Research*.459-464.

KKTC istatistik yılı 2016., TRNC statistical year book of 2013, statistic and research department published in February 2016, Nicosia, 313 pages.

Kolokotsa, D., Santamouris, M., Zeferos, S.C. (2013). Green and cool roofs' urban heat island mitigation potential in European climates for office buildings under free floating conditions. *Elsevier, Solar Energy*, 95,118-130.

Köhler, M., (2008). Green facades – a view back and some visions. *Springer science, urban ecosyst*, 11:423-426

Livesley, S.J., McPherson, E.G., Calfapietra, C. (2016). The urban forest and ecosystem services: impacts on urban water, heat, and pollution cycles at the tree, street, and city scale. *Journal of Environmental Quality*, 45:119-124.

Mentens, J., Raes, D., Hermy, M. (2006). Green roofs as a tool for solving the rainwater runoff problem in the urbanized 21st century? *Elsevier, Land and Urban Planning*, 77, 217-226.

Nastran, M., Kobal, M., Eler, K. (2018). Urban heat islands in relation to green land use in European cities. *Elsevier, Urban forestry and urban greening*, (<https://doi.org/10.1016/j.ufug.2018.01.008>)

Norton. B. A., Coutts, A.M., Livesley, S. J., Harris, R. J., Hunter, A. M., Williams, N. S. G. (2015). Planning for cooler cities: A framework to prioritise green infrastructure to mitigate high temperatures in urban landscapes. *Elsevier, Landscape and Urban Planing*, 134, 127-138.

Oliveira, S., Andrade, H., Vaz, T. (2011). The cooling effect of green spaces as a contribution to the mitigation of urban heat: A case study in Lisbon. *Elsevier*,

*Building and Environment* 46, 2186-2194.

Ozay, N., (2005). A comparative study of climatically responsive house design at various periods of Northern Cyprus architecture. *Elsevier, Building and Environment*. 40,841-852.

Pace, R., Biber, P., Pretzsch, H., Grote, R., (2018). Modeling Ecosystem Services for Park Trees: Sensitivity of i-Tree Eco Simulations to Light Exposure and Tree Species Classification. *Forest*, 9(2), 89.

Perini, K., Perez, G., (2018). Nature based strategies for urban and building sustainability. *Elsevier*. (<https://doi.org/10.1016/B978-0-12-812150-4.00035-5>).

Price, C., Michaelides, S., Pashiriardis, S., Alpert, P. (1999). Long term changes in diurnal temperature range in Cyprus. *Elsevier, Atmospheric research*. 51,85-98.

Prodanovic, V., Zhang, K., Hatt, B., McCarthy, D., Deletic, A., (2018). Optimisation of lightweight green wall media for grey water treatment and reuse. *Elsevier, Building and environment*. 131,99-107.

Rizwan, A.M., Dennis, Y.C.L., Liu, C. (2008). A review on the generation, determination and mitigation of Urban Heat Island. *Science Direct, Journal of Environmental*, 20, 120-128.

Rowe, D.B., (2011). Green roofs as a means of pollution abatement. *Elsevier, Environmental Pollution*, 159,2100-2110.

Rumble, H., Finch, P., Gange, A. C. (2018). Green roof soil organisms: Anthropogenic assemblages or natural communities? *Elsevier, Applied soil ecology*. 11-20.

Sanusi, R., Johnstone, D., May, P., Livesley, S.J. (2017). Microclimate benefits that different street tree species provide to sidewalk pedestrians relate to differences

in Plant Area Index. *Elsevier, Landscape and Urban Planning*, 157,502-511.

Selmi, W., Weber, C., Riviere, E., Blond, N., Mehdi, L., Nowak, D. (2016). Air pollution removal by trees in public green spaces in Strasbourg city, France. *Elsevier, Urban Forestry & Urban Greening*, 17,192-201.

Silverova, A., Ven,F.V.D., Wang, M., Rijsdijk, M., Giesen, N.V.D. (2017). Do green roofs cool the air? *Elsevier, Building and Environment*. 111, 249-255.

Solecki, W.D., Rosenzweig, C., Parshall, L., Pope, G., Clark, M., Cox, J., Wiencke, M. (2005). Mitigation of the heat island effect in urban New Jersey. *Elsevier, Environmental Hazards*, 6, 39-49.

Suparwoko, Taufani, B., (2017). Urban farming construction model on the vertical building envelope to support the green buildings development in Sleman, Indonesia. *Elsevier, Procedia Engineering*. 171,258-264.

Susca, T., Gaffin, S.R., Dell`Osso, G.R. (2011). Positive effects of vegetation: Urban heat island and green roofs. *Elsevier, Environmental Pollution*, 150, 2119-2126.

Taleghani, M. (2017). Outdoor thermal comfort by different heat mitigation strategies- A review. *Elsevier, Renewable and Sustainable Energy Reviews*. 2011-2018.

Theodoridou, I., Karteris, M., Mallinis, G., Tsilos, E., Karteris, A. (2017). Assessing the benefits from retrofitting green roofs in Mediterranean, using environmental modelling GIS and very high spatial resolution remote sensing data: the example of Thessaloniki, Greece. *Elsevier, Procedia Environmental Sciences*. 38, 530-537.

Theophilou, M.K., Serghides, D. (2014). Heat island effect for Nicosia, Cyprus. *Advances in Building Energy Research*.63-73.

Tumini, I., Rubio-Bellido,C., (2016). Measuring climate change impact on urban microclimate: a case study of Concepcion. *Elsevier, Procedia Engineering*, 161,2290-2296.

Vanstockem, J., Vranken, L., Bleys, B., Somers, B., Hermy, M., (2018). Do looks matter? A case study on extensive green roofs using discrete choice experiments. *Sustainability*, 10(2), 309.

Vijayaraghavan, K. (2016). Green roofs: A critical review on the role of components, benefits, limitation and trends. *Elsevier, Renewable and Sustainable Energy Reviews*. 57,740-752.

Waffle, A.D., Corry, C,C., Gillespie, T,J., Brown, R,D,. (2017) Urban heat islands as agricultural opportunities: An innovative approach. *Elsevier, Landscape and Urban planning*. 103-114.

Zachariadis, T., (2012). Climate change in Cyprus: Impacts and adaptation policies. *Cyprus Economic Policy Review*, Vol. 6, No. 1, pp. 21-37.

Zinzi, M., Agnoli, S. (2012). Cool and green roofs. An energy and comfort comparison between passive cooling and mitigation urban heat island techniques for residential buildings in the Mediterranean region. *Elsevier, Energy and Buildings*, 55, 66-76.

## APPENDICES

### Appendix: 1 Green shade area and gray area temperatures

Data	Date/Time	Temperature °C gray area	Temperature °C green area
1	2017-09-20 11:45:01	29.5	30.3
2	2017-09-20 11:55:01	33.4	29.9
3	2017-09-20 12:05:01	33.8	29.7
4	2017-09-20 12:15:01	34.4	29.8
5	2017-09-20 12:25:01	34.4	29.8
6	2017-09-20 12:35:01	34.7	29.9
7	2017-09-20 12:45:01	34.6	29.9
8	2017-09-20 12:55:01	34.4	29.9
9	2017-09-20 13:05:01	34.4	30
10	2017-09-20 13:15:01	34.7	30
11	2017-09-20 13:25:01	34.8	30.2
12	2017-09-20 13:35:01	34.5	30.1
13	2017-09-20 13:45:01	33.8	30
14	2017-09-20 13:55:01	33.9	30.1
15	2017-09-20 14:05:01	33.9	30.1
16	2017-09-20 14:15:01	33.1	30
17	2017-09-20 14:25:01	32.9	30
18	2017-09-20 14:35:01	33	30.2
19	2017-09-20 14:45:01	33	30.3
20	2017-09-20 14:55:01	32.8	30.4
21	2017-09-20 15:05:01	32.8	30.5
22	2017-09-20 15:15:01	32.5	30.5
23	2017-09-20 15:25:01	31.9	30.5
24	2017-09-20 15:35:01	31.9	30.5
25	2017-09-20 15:45:01	31.8	30.5
26	2017-09-20 15:55:01	31.6	30.6
27	2017-09-20 16:05:01	31.3	30.5
28	2017-09-20 16:15:01	31.1	30.4
29	2017-09-20 16:25:01	30.6	30.8
30	2017-09-20 16:35:01	30.2	31.2
31	2017-09-20 16:45:01	30.3	31.2
32	2017-09-20 16:55:01	30.1	31
33	2017-09-20 17:05:01	29.7	31
34	2017-09-20 17:15:01	29.7	30.4
35	2017-09-20 17:25:01	29.6	29.7
36	2017-09-20 17:35:01	29.4	29.3

37	2017-09-20 17:45:01	29.2	29.1
38	2017-09-20 17:55:01	28.9	28.8
39	2017-09-20 18:05:01	28.7	28.7
40	2017-09-20 18:15:01	28.6	28.6
41	2017-09-20 18:25:01	28.5	28.5
42	2017-09-20 18:35:01	28.4	28.3
43	2017-09-20 18:45:01	28.2	28.1
44	2017-09-20 18:55:01	28.1	28.1
45	2017-09-20 19:05:01	27.9	28
46	2017-09-20 19:15:01	27.9	28.1
47	2017-09-20 19:25:01	27.7	28
48	2017-09-20 19:35:01	27.7	27.8
49	2017-09-20 19:45:01	27.6	27.7
50	2017-09-20 19:55:01	27.6	27.7
51	2017-09-20 20:05:01	27.4	27.6
52	2017-09-20 20:15:01	27.4	27.7
53	2017-09-20 20:25:01	27.5	27.7
54	2017-09-20 20:35:01	27.6	27.8
55	2017-09-20 20:45:01	27.7	27.8
56	2017-09-20 20:55:01	27.5	27.8
57	2017-09-20 21:05:01	27.3	27.7
58	2017-09-20 21:15:01	27.3	27.7
59	2017-09-20 21:25:01	27.2	27.7
60	2017-09-20 21:35:01	27	27.7
61	2017-09-20 21:45:01	27	27.5
62	2017-09-20 21:55:01	27	27.6
63	2017-09-20 22:05:01	27	27.5
64	2017-09-20 22:15:01	27	27.5
65	2017-09-20 22:25:01	27	27.5
66	2017-09-20 22:35:01	26.8	27.3
67	2017-09-20 22:45:01	26.8	27.3
68	2017-09-20 22:55:01	26.8	27.2
69	2017-09-20 23:05:01	26.9	27.3
70	2017-09-20 23:15:01	27	27.4
71	2017-09-20 23:25:01	27	27.4
72	2017-09-20 23:35:01	26.9	27.2
73	2017-09-20 23:45:01	26.9	27.1
74	2017-09-20 23:55:01	26.8	27
75	2017-09-21 00:05:01	26.6	27
76	2017-09-21 00:15:01	26.5	27
77	2017-09-21 00:25:01	26.5	26.9
78	2017-09-21 00:35:01	26.5	26.8

79	2017-09-21 00:45:01	26.4	26.9
80	2017-09-21 00:55:01	26.3	26.7
81	2017-09-21 01:05:01	26.3	26.8
82	2017-09-21 01:15:01	26.3	26.8
83	2017-09-21 01:25:01	26.3	26.9
84	2017-09-21 01:35:01	26.2	26.8
85	2017-09-21 01:45:01	26.2	26.8
86	2017-09-21 01:55:01	26.2	26.8
87	2017-09-21 02:05:01	26.2	26.7
88	2017-09-21 02:15:01	26.1	26.6
89	2017-09-21 02:25:01	25.9	26.2
90	2017-09-21 02:35:01	25.8	26.1
91	2017-09-21 02:45:01	25.7	26
92	2017-09-21 02:55:01	25.6	26
93	2017-09-21 03:05:01	25.6	26
94	2017-09-21 03:15:01	25.5	25.9
95	2017-09-21 03:25:01	25.5	25.8
96	2017-09-21 03:35:01	25.4	25.9
97	2017-09-21 03:45:01	25.4	25.9
98	2017-09-21 03:55:01	25.4	25.9
99	2017-09-21 04:05:01	25.4	25.8
100	2017-09-21 04:15:01	25.3	25.8
101	2017-09-21 04:25:01	25.3	25.8
102	2017-09-21 04:35:01	25.3	25.8
103	2017-09-21 04:45:01	25.2	25.8
104	2017-09-21 04:55:01	25.2	25.8
105	2017-09-21 05:05:01	25.2	25.6
106	2017-09-21 05:15:01	25.3	25.6
107	2017-09-21 05:25:01	25.2	25.5
108	2017-09-21 05:35:01	25.2	25.5
109	2017-09-21 05:45:01	25.3	25.4
110	2017-09-21 05:55:01	25.5	25.4
111	2017-09-21 06:05:01	25.4	25.4
112	2017-09-21 06:15:01	25.4	25.3
113	2017-09-21 06:25:01	25.4	25.2
114	2017-09-21 06:35:01	25.4	25.1
115	2017-09-21 06:45:01	25.5	25.1
116	2017-09-21 06:55:01	25.5	25.3
117	2017-09-21 07:05:01	25.7	25.3
118	2017-09-21 07:15:01	25.9	25.4
119	2017-09-21 07:25:01	26.1	25.5
120	2017-09-21 07:35:01	26.3	25.7

121	2017-09-21 07:45:01	26.6	26
122	2017-09-21 07:55:01	26.8	26.2
123	2017-09-21 08:05:01	27.1	26.5
124	2017-09-21 08:15:01	27.4	26.8
125	2017-09-21 08:25:01	27.7	27
126	2017-09-21 08:35:01	28	27.2
127	2017-09-21 08:45:01	28.4	27.5
128	2017-09-21 08:55:01	29	27.7
129	2017-09-21 09:05:01	29.5	27.9
130	2017-09-21 09:15:01	30.6	29.5
131	2017-09-21 09:25:01	30.9	31.2
132	2017-09-21 09:35:01	31.4	29.5
133	2017-09-21 09:45:01	32.1	28.8
134	2017-09-21 09:55:01	32.9	28.7
135	2017-09-21 10:05:01	33.2	28.6
136	2017-09-21 10:15:01	33.3	28.7
137	2017-09-21 10:25:01	33.7	28.9
138	2017-09-21 10:35:01	34.4	28.9
139	2017-09-21 10:45:01	34.4	29
140	2017-09-21 10:55:01	34.8	29.2
141	2017-09-21 11:05:01	35.1	29.2
142	2017-09-21 11:15:01	34.8	29.4
143	2017-09-21 11:25:01	34.8	29.3
144	2017-09-21 11:35:01	35.1	29.4
145	2017-09-21 11:45:01	35.3	29.5
146	2017-09-21 11:55:01	35.4	29.7
147	2017-09-21 12:05:01	35.6	29.7
148	2017-09-21 12:15:01	35.9	29.7
149	2017-09-21 12:25:01	35.7	29.6
150	2017-09-21 12:35:01	36	29.9
151	2017-09-21 12:45:01	36	30
152	2017-09-21 12:55:01	36	30
153	2017-09-21 13:05:01	35.9	29.9
154	2017-09-21 13:15:01	35.6	30
155	2017-09-21 13:25:01	35.6	30.2
156	2017-09-21 13:35:01	35.8	30.3
157	2017-09-21 13:45:01	35.8	30.4
158	2017-09-21 13:55:01	35.9	30.5
159	2017-09-21 14:05:01	35.9	30.5
160	2017-09-21 14:15:01	35.8	30.4
161	2017-09-21 14:25:01	35.7	30.5
162	2017-09-21 14:35:01	34.8	30.8

163	2017-09-21 14:45:01	34.1	31
164	2017-09-21 14:55:01	33.1	30.9
165	2017-09-21 15:05:01	33	30.8
166	2017-09-21 15:15:01	33	31
167	2017-09-21 15:25:01	32.9	31
168	2017-09-21 15:35:01	33	31.3
169	2017-09-21 15:45:01	32.6	31.3
170	2017-09-21 15:55:01	32.3	31.1
171	2017-09-21 16:05:01	31.7	31.1
172	2017-09-21 16:15:01	31.6	31.1
173	2017-09-21 16:25:01	31.2	31.8
174	2017-09-21 16:35:01	31	32.3
175	2017-09-21 16:45:01	31	32.3
176	2017-09-21 16:55:01	30.9	32
177	2017-09-21 17:05:01	30.8	32.4
178	2017-09-21 17:15:01	30.7	31.2
179	2017-09-21 17:25:01	30.4	30.6
180	2017-09-21 17:35:01	30.2	30.4
181	2017-09-21 17:45:01	30.1	30
182	2017-09-21 17:55:01	29.8	29.8
183	2017-09-21 18:05:01	29.7	29.7
184	2017-09-21 18:15:01	29.5	29.5
185	2017-09-21 18:25:01	29.4	29.4
186	2017-09-21 18:35:01	29.3	29.2
187	2017-09-21 18:45:01	29.2	29.1
188	2017-09-21 18:55:01	29.1	29
189	2017-09-21 19:05:01	28.9	29.1
190	2017-09-21 19:15:01	28.8	29.1
191	2017-09-21 19:25:01	28.7	29.2
192	2017-09-21 19:35:01	28.6	29
193	2017-09-21 19:45:01	28.4	28.7
194	2017-09-21 19:55:01	28.3	28.5
195	2017-09-21 20:05:01	28.1	28.5
196	2017-09-21 20:15:01	28	28.4
197	2017-09-21 20:25:01	28	28.4
198	2017-09-21 20:35:01	27.9	28.3
199	2017-09-21 20:45:01	27.8	28.3
200	2017-09-21 20:55:01	27.7	28.1
201	2017-09-21 21:05:01	27.7	28
202	2017-09-21 21:15:01	27.6	27.8
203	2017-09-21 21:25:01	27.6	27.8
204	2017-09-21 21:35:01	27.5	27.8

205	2017-09-21 21:45:01	27.3	27.7
206	2017-09-21 21:55:01	27.2	27.7
207	2017-09-21 22:05:01	27.2	27.5
208	2017-09-21 22:15:01	27.2	27.5
209	2017-09-21 22:25:01	27.1	27.4
210	2017-09-21 22:35:01	27.1	27.3
211	2017-09-21 22:45:01	27.1	27.3
212	2017-09-21 22:55:01	27	27.3
213	2017-09-21 23:05:01	27	27.2
214	2017-09-21 23:15:01	26.8	27.2
215	2017-09-21 23:25:01	26.8	27.1
216	2017-09-21 23:35:01	26.7	27.1
217	2017-09-21 23:45:01	26.7	27
218	2017-09-21 23:55:01	26.6	27
219	2017-09-22 00:05:01	26.6	27
220	2017-09-22 00:15:01	26.6	26.9
221	2017-09-22 00:25:01	26.5	26.9
222	2017-09-22 00:35:01	26.4	26.9
223	2017-09-22 00:45:01	26.1	26.6
224	2017-09-22 00:55:01	25.8	26.4
225	2017-09-22 01:05:01	26	26.5
226	2017-09-22 01:15:01	26.2	26.7
227	2017-09-22 01:25:01	26.1	26.5
228	2017-09-22 01:35:01	25.8	26.3
229	2017-09-22 01:45:01	26	26.4
230	2017-09-22 01:55:01	26.1	26.4
231	2017-09-22 02:05:01	26.1	26.3
232	2017-09-22 02:15:01	26.1	26.2
233	2017-09-22 02:25:01	26	26.2
234	2017-09-22 02:35:01	26.1	26.2
235	2017-09-22 02:45:01	26	26.2
236	2017-09-22 02:55:01	26.1	26.2
237	2017-09-22 03:05:01	26.1	26.2
238	2017-09-22 03:15:01	25.9	26.1
239	2017-09-22 03:25:01	25.6	25.9
240	2017-09-22 03:35:01	25.2	25.7
241	2017-09-22 03:45:01	25	25.5
242	2017-09-22 03:55:01	25.1	25.6
243	2017-09-22 04:05:01	25.2	25.7
244	2017-09-22 04:15:01	25.1	25.5
245	2017-09-22 04:25:01	25.4	25.8
246	2017-09-22 04:35:01	25.4	25.7

247	2017-09-22 04:45:01	25	25.3
248	2017-09-22 04:55:01	24.7	25.1
249	2017-09-22 05:05:01	24.5	25
250	2017-09-22 05:15:01	24.8	25.3
251	2017-09-22 05:25:01	25.1	25.5
252	2017-09-22 05:35:01	25	25.3
253	2017-09-22 05:45:01	24.9	25.2
254	2017-09-22 05:55:01	25.1	25.1
255	2017-09-22 06:05:01	24.7	24.9
256	2017-09-22 06:15:01	24.4	24.7
257	2017-09-22 06:25:01	24.6	24.8
258	2017-09-22 06:35:01	24.7	24.9
259	2017-09-22 06:45:01	24.7	24.8
260	2017-09-22 06:55:01	24.7	24.9
261	2017-09-22 07:05:01	24.7	24.9
262	2017-09-22 07:15:01	24.6	24.9
263	2017-09-22 07:25:01	24.7	25
264	2017-09-22 07:35:01	25.1	25.1
265	2017-09-22 07:45:01	25.3	25.4
266	2017-09-22 07:55:01	25.6	25.6
267	2017-09-22 08:05:01	26.2	25.9
268	2017-09-22 08:15:01	26.3	26.2
269	2017-09-22 08:25:01	26.7	26.4
270	2017-09-22 08:35:01	26.9	26.5
271	2017-09-22 08:45:01	27.2	26.8
272	2017-09-22 08:55:01	27.8	27
273	2017-09-22 09:05:01	28.5	27.1
274	2017-09-22 09:15:01	29	27.3
275	2017-09-22 09:25:01	29.4	29.8
276	2017-09-22 09:35:01	30.1	28.5
277	2017-09-22 09:45:01	30.6	27.7
278	2017-09-22 09:55:01	30.7	27.6
279	2017-09-22 10:05:01	30.9	27.7
280	2017-09-22 10:15:01	31	27.7
281	2017-09-22 10:25:01	31.6	27.7
282	2017-09-22 10:35:01	31.3	27.8
283	2017-09-22 10:45:01	31.1	27.9
284	2017-09-22 10:55:01	31.7	27.9
285	2017-09-22 11:05:01	32	27.8
286	2017-09-22 11:15:01	32.5	27.8
287	2017-09-22 11:25:01	32.7	27.9
288	2017-09-22 11:35:01	33	27.9

289	2017-09-22 11:45:01	33.4	28.1
290	2017-09-22 11:55:01	32.8	28.1
291	2017-09-22 12:05:01	32.8	28.3
292	2017-09-22 12:15:01	32.4	28.3
293	2017-09-22 12:25:01	32.6	28.4
294	2017-09-22 12:35:01	32.6	28.4
295	2017-09-22 12:45:01	33	28.4
296	2017-09-22 12:55:01	32.6	28.4
297	2017-09-22 13:05:01	32.3	28.4
298	2017-09-22 13:15:01	32.3	28.4
299	2017-09-22 13:25:01	32.9	28.5
300	2017-09-22 13:35:01	32.4	28.5
301	2017-09-22 13:45:01	32.3	28.5
302	2017-09-22 13:55:01	32	28.6
303	2017-09-22 14:05:01	32.5	28.7
304	2017-09-22 14:15:01	32	28.7
305	2017-09-22 14:25:01	32	28.8
306	2017-09-22 14:35:01	32.4	29.1
307	2017-09-22 14:45:01	32.3	29.3
308	2017-09-22 14:55:01	31.8	29.4
309	2017-09-22 15:05:01	31.6	29.4
310	2017-09-22 15:15:01	31.2	29.4
311	2017-09-22 15:25:01	31.2	29.5
312	2017-09-22 15:35:01	31.1	29.7
313	2017-09-22 15:45:01	30.5	29.5
314	2017-09-22 15:55:01	30.1	29.5
315	2017-09-22 16:05:01	29.8	29.4
316	2017-09-22 16:15:01	29.6	29.4
317	2017-09-22 16:25:01	29.4	30.1
318	2017-09-22 16:35:01	29.2	30.5
319	2017-09-22 16:45:01	28.9	30.4
320	2017-09-22 16:55:01	28.6	30.2
321	2017-09-22 17:05:01	28.5	30.8
322	2017-09-22 17:15:01	28.3	29.1
323	2017-09-22 17:25:01	28.1	28.5
324	2017-09-22 17:35:01	28.1	28.3
325	2017-09-22 17:45:01	27.8	28
326	2017-09-22 17:55:01	27.7	27.9
327	2017-09-22 18:05:01	27.5	27.7
328	2017-09-22 18:15:01	27.3	27.5
329	2017-09-22 18:25:01	27.1	27.4
330	2017-09-22 18:35:01	27	27.2

331	2017-09-22 18:45:01	26.8	27
332	2017-09-22 18:55:01	26.6	27
333	2017-09-22 19:05:01	26.4	26.9
334	2017-09-22 19:15:01	26.3	26.7
335	2017-09-22 19:25:01	26.3	26.5
336	2017-09-22 19:35:01	26.4	26.5
337	2017-09-22 19:45:01	26.3	26.4
338	2017-09-22 19:55:01	26.2	26.3
339	2017-09-22 20:05:01	26.2	26.3
340	2017-09-22 20:15:01	26.1	26.2
341	2017-09-22 20:25:01	26	26.2
342	2017-09-22 20:35:01	26	26.2
343	2017-09-22 20:45:01	26	26.2
344	2017-09-22 20:55:01	25.9	26.1
345	2017-09-22 21:05:01	25.8	26.1
346	2017-09-22 21:15:01	25.8	26
347	2017-09-22 21:25:01	25.8	26
348	2017-09-22 21:35:01	25.7	25.9
349	2017-09-22 21:45:01	25.7	25.9
350	2017-09-22 21:55:01	25.6	25.9
351	2017-09-22 22:05:01	25.6	25.9
352	2017-09-22 22:15:01	25.5	25.9
353	2017-09-22 22:25:01	25.5	25.8
354	2017-09-22 22:35:01	25.4	25.7
355	2017-09-22 22:45:01	25.4	25.6
356	2017-09-22 22:55:01	25.4	25.6
357	2017-09-22 23:05:01	25.3	25.5
358	2017-09-22 23:15:01	25.1	25.4
359	2017-09-22 23:25:01	25	25.4
360	2017-09-22 23:35:01	24.9	25.4
361	2017-09-22 23:45:01	24.9	25.3
362	2017-09-22 23:55:01	24.9	25.2
363	2017-09-23 00:05:01	24.8	25.2
364	2017-09-23 00:15:01	24.7	25.1
365	2017-09-23 00:25:01	24.7	25.1
366	2017-09-23 00:35:01	24.7	25.1
367	2017-09-23 00:45:01	24.7	25
368	2017-09-23 00:55:01	24.7	25
369	2017-09-23 01:05:01	24.7	24.9
370	2017-09-23 01:15:01	24.6	24.9
371	2017-09-23 01:25:01	24.5	24.8
372	2017-09-23 01:35:01	24.5	24.8

373	2017-09-23 01:45:01	24.5	24.8
374	2017-09-23 01:55:01	24.5	24.8
375	2017-09-23 02:05:01	24.5	24.8
376	2017-09-23 02:15:01	24.6	24.9
377	2017-09-23 02:25:01	24.6	24.9
378	2017-09-23 02:35:01	24.6	24.8
379	2017-09-23 02:45:01	24.5	24.7
380	2017-09-23 02:55:01	24.4	24.7
381	2017-09-23 03:05:01	24.3	24.7
382	2017-09-23 03:15:01	24.3	24.7
383	2017-09-23 03:25:01	24.2	24.6
384	2017-09-23 03:35:01	24.2	24.6
385	2017-09-23 03:45:01	24.2	24.6
386	2017-09-23 03:55:01	24.2	24.6
387	2017-09-23 04:05:01	24.3	24.6
388	2017-09-23 04:15:01	24.2	24.6
389	2017-09-23 04:25:01	24.2	24.5
390	2017-09-23 04:35:01	24.1	24.5
391	2017-09-23 04:45:01	24.1	24.4
392	2017-09-23 04:55:01	24.1	24.3
393	2017-09-23 05:05:01	24.1	24.3
394	2017-09-23 05:15:01	24	24.3
395	2017-09-23 05:25:01	24.1	24.4
396	2017-09-23 05:35:01	24	24.3
397	2017-09-23 05:45:01	24	24
398	2017-09-23 05:55:01	23.8	23.9
399	2017-09-23 06:05:01	23.7	23.6
400	2017-09-23 06:15:01	23.7	23.6
401	2017-09-23 06:25:01	23.7	23.9
402	2017-09-23 06:35:01	23.9	24
403	2017-09-23 06:45:01	23.9	24
404	2017-09-23 06:55:01	24	24.1
405	2017-09-23 07:05:01	23.8	24.1
406	2017-09-23 07:15:01	24	24.2
407	2017-09-23 07:25:01	24.3	24.1
408	2017-09-23 07:35:01	24.6	24.4
409	2017-09-23 07:45:01	24.9	24.6
410	2017-09-23 07:55:01	25	24.8
411	2017-09-23 08:05:01	25.3	25
412	2017-09-23 08:15:01	25.5	25.3
413	2017-09-23 08:25:01	25.7	25.5
414	2017-09-23 08:35:01	26	25.7

415	2017-09-23 08:45:01	26.3	25.9
416	2017-09-23 08:55:01	26.8	26.1
417	2017-09-23 09:05:01	27.6	26.3
418	2017-09-23 09:15:01	28.8	26.6
419	2017-09-23 09:25:01	29.9	28.5
420	2017-09-23 09:35:01	30.6	29.1
421	2017-09-23 09:45:01	30.9	27.8
422	2017-09-23 09:55:01	31.3	27.5
423	2017-09-23 10:05:01	31.3	27.4
424	2017-09-23 10:15:01	31.7	27.3
425	2017-09-23 10:25:01	32.2	27.4
426	2017-09-23 10:35:01	32.5	27.5
427	2017-09-23 10:45:01	32.1	27.6
428	2017-09-23 10:55:01	32.5	27.7
429	2017-09-23 11:05:01	33.1	27.8
430	2017-09-23 11:15:01	33.2	27.9
431	2017-09-23 11:25:01	33.3	27.9
432	2017-09-23 11:35:01	33.8	28.1
433	2017-09-23 11:45:01	34.1	28.1
434	2017-09-23 11:55:01	34.4	28.2
435	2017-09-23 12:05:01	34.7	28.3
436	2017-09-23 12:15:01	34.7	28.3
437	2017-09-23 12:25:01	34.5	28.5
438	2017-09-23 12:35:01	35	28.5
439	2017-09-23 12:45:01	34.9	28.5
440	2017-09-23 12:55:01	34.9	28.5
441	2017-09-23 13:05:01	35.1	28.7
442	2017-09-23 13:15:01	34.8	28.9
443	2017-09-23 13:25:01	34.8	29
444	2017-09-23 13:35:01	34.2	28.9
445	2017-09-23 13:45:01	34.3	28.9
446	2017-09-23 13:55:01	34.3	29.2
447	2017-09-23 14:05:01	34.6	29.3
448	2017-09-23 14:15:01	34.5	29.4
449	2017-09-23 14:25:01	34.1	29.4
450	2017-09-23 14:35:01	34.1	29.5
451	2017-09-23 14:45:01	33.6	29.7
452	2017-09-23 14:55:01	32.9	29.8
453	2017-09-23 15:05:01	32.9	30
454	2017-09-23 15:15:01	32.6	30.3
455	2017-09-23 15:25:01	31.6	29.9
456	2017-09-23 15:35:01	31.5	30.3

457	2017-09-23 15:45:01	31.1	30.3
458	2017-09-23 15:55:01	31	30.3
459	2017-09-23 16:05:01	30.7	30.5
460	2017-09-23 16:15:01	30.4	30.5
461	2017-09-23 16:25:01	30.3	31.4
462	2017-09-23 16:35:01	30.1	32.1
463	2017-09-23 16:45:01	30	32
464	2017-09-23 16:55:01	29.8	32.1
465	2017-09-23 17:05:01	29.6	32.2
466	2017-09-23 17:15:01	29.4	30.6
467	2017-09-23 17:25:01	29.2	29.9
468	2017-09-23 17:35:01	28.8	29.4
469	2017-09-23 17:45:01	28.9	29.3
470	2017-09-23 17:55:01	28.6	29.1
471	2017-09-23 18:05:01	28.4	29
472	2017-09-23 18:15:01	28.1	28.9
473	2017-09-23 18:25:01	28	28.6
474	2017-09-23 18:35:01	27.7	28.6
475	2017-09-23 18:45:01	27.6	28.4
476	2017-09-23 18:55:01	27.7	28.1
477	2017-09-23 19:05:01	27.5	28
478	2017-09-23 19:15:01	27.3	27.9
479	2017-09-23 19:25:01	27.1	27.8
480	2017-09-23 19:35:01	27.1	27.7
481	2017-09-23 19:45:01	27	27.7
482	2017-09-23 19:55:01	26.8	27.7
483	2017-09-23 20:05:01	26.7	27.7
484	2017-09-23 20:15:01	26.6	27.7
485	2017-09-23 20:25:01	26.6	27.6
486	2017-09-23 20:35:01	26.4	27.5
487	2017-09-23 20:45:01	26.4	27.5
488	2017-09-23 20:55:01	26.4	27.4
489	2017-09-23 21:05:01	26.2	27.3
490	2017-09-23 21:15:01	26.2	27.2
491	2017-09-23 21:25:01	26.1	27
492	2017-09-23 21:35:01	26.1	26.9
493	2017-09-23 21:45:01	26.1	26.6
494	2017-09-23 21:55:01	26	26.4
495	2017-09-23 22:05:01	26	26.3
496	2017-09-23 22:15:01	25.8	26.5
497	2017-09-23 22:25:01	25.8	26.4
498	2017-09-23 22:35:01	25.8	26.3

499	2017-09-23 22:45:01	25.7	26.3
500	2017-09-23 22:55:01	25.6	26.4
501	2017-09-23 23:05:01	25.6	26.4
502	2017-09-23 23:15:01	25.5	26.3
503	2017-09-23 23:25:01	25.4	26.3
504	2017-09-23 23:35:01	25.4	26.3
505	2017-09-23 23:45:01	25.4	26.3
506	2017-09-23 23:55:01	25.4	26.3
507	2017-09-24 00:05:01	25.4	26.2
508	2017-09-24 00:15:01	25.4	26.2
509	2017-09-24 00:25:01	25.4	26.1
510	2017-09-24 00:35:01	25.3	26.1
511	2017-09-24 00:45:01	25.3	26.1
512	2017-09-24 00:55:01	25.2	26.1
513	2017-09-24 01:05:01	25.3	26
514	2017-09-24 01:15:01	25.2	26
515	2017-09-24 01:25:01	25.2	25.9
516	2017-09-24 01:35:01	25.1	25.8
517	2017-09-24 01:45:01	25.1	25.7
518	2017-09-24 01:55:01	24.9	25.7
519	2017-09-24 02:05:01	24.8	25.6
520	2017-09-24 02:15:01	24.8	25.5
521	2017-09-24 02:25:01	24.7	25.5
522	2017-09-24 02:35:01	24.7	25.5
523	2017-09-24 02:45:01	24.6	25.4
524	2017-09-24 02:55:01	24.6	25.4
525	2017-09-24 03:05:01	24.6	25.4
526	2017-09-24 03:15:01	24.6	25.4
527	2017-09-24 03:25:01	24.6	25.3
528	2017-09-24 03:35:01	24.6	25.3
529	2017-09-24 03:45:01	24.6	25.3
530	2017-09-24 03:55:01	24.6	25.2
531	2017-09-24 04:05:01	24.5	25.1
532	2017-09-24 04:15:01	24.5	25.1
533	2017-09-24 04:25:01	24.5	25.2
534	2017-09-24 04:35:01	24.5	25.2
535	2017-09-24 04:45:01	24.5	25.2
536	2017-09-24 04:55:01	24.6	25.1
537	2017-09-24 05:05:01	24.7	25
538	2017-09-24 05:15:01	24.8	24.9
539	2017-09-24 05:25:01	25	24.9
540	2017-09-24 05:35:01	24.8	24.9

541	2017-09-24 05:45:01	24.7	24.9
542	2017-09-24 05:55:01	24.8	24.9
543	2017-09-24 06:05:01	24.6	24.8
544	2017-09-24 06:15:01	24.5	24.8
545	2017-09-24 06:25:01	24.4	24.8
546	2017-09-24 06:35:01	24.5	24.8
547	2017-09-24 06:45:01	24.7	24.8
548	2017-09-24 06:55:01	24.5	24.8
549	2017-09-24 07:05:01	24.5	24.8
550	2017-09-24 07:15:01	24.6	24.9
551	2017-09-24 07:25:01	24.6	24.9
552	2017-09-24 07:35:01	24.8	25
553	2017-09-24 07:45:01	25.1	25.1
554	2017-09-24 07:55:01	25.2	25.2
555	2017-09-24 08:05:01	25.4	25.4
556	2017-09-24 08:15:01	26.2	25.7
557	2017-09-24 08:25:01	26.8	26.2
558	2017-09-24 08:35:01	27.7	26.6
559	2017-09-24 08:45:01	27.8	26.9
560	2017-09-24 08:55:01	27.9	26.9
561	2017-09-24 09:05:01	28.5	27
562	2017-09-24 09:15:01	29.4	27.1
563	2017-09-24 09:25:01	29.9	27.4
564	2017-09-24 09:35:01	30.6	29.2
565	2017-09-24 09:45:01	31.3	28.1
566	2017-09-24 09:55:01	31.8	27.7
567	2017-09-24 10:05:01	32	27.7
568	2017-09-24 10:15:01	32.5	27.7
569	2017-09-24 10:25:01	32.7	27.7
570	2017-09-24 10:35:01	33.2	27.8
571	2017-09-24 10:45:01	33.5	28
572	2017-09-24 10:55:01	33.4	28.1
573	2017-09-24 11:05:01	34	28.3
574	2017-09-24 11:15:01	34.2	28.4
575	2017-09-24 11:25:01	34.3	28.5
576	2017-09-24 11:35:01	34.3	28.5
577	2017-09-24 11:45:01	34.6	28.6
578	2017-09-24 11:55:01	34.1	28.5
579	2017-09-24 12:05:01	34.9	28.8
580	2017-09-24 12:15:01	35.1	28.7
581	2017-09-24 12:25:01	34.9	28.8
582	2017-09-24 12:35:01	35.2	28.9

583	2017-09-24 12:45:01	35	28.9
584	2017-09-24 12:55:01	35.9	29.2
585	2017-09-24 13:05:01	35.7	29.3
586	2017-09-24 13:15:01	35.6	29.4
587	2017-09-24 13:25:01	35.6	29.5
588	2017-09-24 13:35:01	36	29.5
589	2017-09-24 13:45:01	35.5	29.5
590	2017-09-24 13:55:01	35.7	29.6
591	2017-09-24 14:05:01	35.1	29.6
592	2017-09-24 14:15:01	34.8	29.7
593	2017-09-24 14:25:01	33.8	29.8
594	2017-09-24 14:35:01	34.1	29.8
595	2017-09-24 14:45:01	33.6	29.9
596	2017-09-24 14:55:01	33.7	30.2
597	2017-09-24 15:05:01	33.3	30.4
598	2017-09-24 15:15:01	32.6	30.3
599	2017-09-24 15:25:01	32.2	30.5
600	2017-09-24 15:35:01	31.8	30.4
601	2017-09-24 15:45:01	31.2	30.4
602	2017-09-24 15:55:01	31.2	30.6
603	2017-09-24 16:05:01	30.7	30.5
604	2017-09-24 16:15:01	30.6	30.8
605	2017-09-24 16:25:01	30.4	31.5
606	2017-09-24 16:35:01	30.3	31.9
607	2017-09-24 16:45:01	30	31.7
608	2017-09-24 16:55:01	30	31.9
609	2017-09-24 17:05:01	29.7	32.2
610	2017-09-24 17:15:01	29.6	30.8
611	2017-09-24 17:25:01	29.5	30.1
612	2017-09-24 17:35:01	29.2	29.6
613	2017-09-24 17:45:01	29	29.5
614	2017-09-24 17:55:01	28.9	29.4
615	2017-09-24 18:05:01	28.7	29.2
616	2017-09-24 18:15:01	28.5	28.9
617	2017-09-24 18:25:01	28.5	28.7
618	2017-09-24 18:35:01	28.4	28.6
619	2017-09-24 18:45:01	28.3	28.5
620	2017-09-24 18:55:01	28.3	28.4
621	2017-09-24 19:05:01	28.1	28.2
622	2017-09-24 19:15:01	27.8	28.2
623	2017-09-24 19:25:01	27.7	28.1
624	2017-09-24 19:35:01	27.7	28.2

625	2017-09-24 19:45:01	27.3	28.1
626	2017-09-24 19:55:01	27.2	28
627	2017-09-24 20:05:01	27.1	28
628	2017-09-24 20:15:01	27	27.9
629	2017-09-24 20:25:01	27.1	28
630	2017-09-24 20:35:01	27	28
631	2017-09-24 20:45:01	27.1	28
632	2017-09-24 20:55:01	27.1	27.9
633	2017-09-24 21:05:01	27	27.8
634	2017-09-24 21:15:01	26.8	27.7
635	2017-09-24 21:25:01	26.8	27.6
636	2017-09-24 21:35:01	26.8	27.5
637	2017-09-24 21:45:01	26.8	27.5
638	2017-09-24 21:55:01	26.7	27.3
639	2017-09-24 22:05:01	26.6	27.2
640	2017-09-24 22:15:01	26.4	27
641	2017-09-24 22:25:01	26.4	27
642	2017-09-24 22:35:01	26.2	26.9
643	2017-09-24 22:45:01	26.1	26.8
644	2017-09-24 22:55:01	26	26.8
645	2017-09-24 23:05:01	25.9	26.6
646	2017-09-24 23:15:01	25.9	26.6
647	2017-09-24 23:25:01	25.8	26.4
648	2017-09-24 23:35:01	25.7	26.4
649	2017-09-24 23:45:01	25.6	26.4
650	2017-09-24 23:55:01	25.5	26.4
651	2017-09-25 00:05:01	25.5	26.2
652	2017-09-25 00:15:01	25.4	26.1
653	2017-09-25 00:25:01	25.3	26.1
654	2017-09-25 00:35:01	25.3	26.1
655	2017-09-25 00:45:01	25.2	26
656	2017-09-25 00:55:01	25.2	26
657	2017-09-25 01:05:01	25.1	25.8
658	2017-09-25 01:15:01	25	25.8
659	2017-09-25 01:25:01	25	25.8
660	2017-09-25 01:35:01	24.9	25.7
661	2017-09-25 01:45:01	24.9	25.7
662	2017-09-25 01:55:01	24.8	25.6
663	2017-09-25 02:05:01	24.7	25.4
664	2017-09-25 02:15:01	24.7	25.2
665	2017-09-25 02:25:01	24.6	25.2
666	2017-09-25 02:35:01	24.5	24.9

667	2017-09-25 02:45:01	24.3	24.7
668	2017-09-25 02:55:01	24.2	24.7
669	2017-09-25 03:05:01	24.1	24.7
670	2017-09-25 03:15:01	24	24.7
671	2017-09-25 03:25:01	24	24.7
672	2017-09-25 03:35:01	23.8	24.7
673	2017-09-25 03:45:01	23.8	24.7
674	2017-09-25 03:55:01	23.9	24.7
675	2017-09-25 04:05:01	24	24.7
676	2017-09-25 04:15:01	24	24.5
677	2017-09-25 04:25:01	24	24.5
678	2017-09-25 04:35:01	24	24.5
679	2017-09-25 04:45:01	24	24.4
680	2017-09-25 04:55:01	23.9	24.4
681	2017-09-25 05:05:01	23.8	24.4
682	2017-09-25 05:15:01	23.7	24.3
683	2017-09-25 05:25:01	23.7	24.2
684	2017-09-25 05:35:01	23.9	24.3
685	2017-09-25 05:45:01	24.2	24.2
686	2017-09-25 05:55:01	24.2	24.3
687	2017-09-25 06:05:01	24.2	24.3
688	2017-09-25 06:15:01	24.3	24.4
689	2017-09-25 06:25:01	24.4	24.5
690	2017-09-25 06:35:01	24.3	24.3
691	2017-09-25 06:45:01	24.3	24.3
692	2017-09-25 06:55:01	24.6	24.3
693	2017-09-25 07:05:01	24.7	24.4
694	2017-09-25 07:15:01	25.1	24.5
695	2017-09-25 07:25:01	25.4	24.6
696	2017-09-25 07:35:01	25.4	24.7
697	2017-09-25 07:45:01	25.8	25
698	2017-09-25 07:55:01	26.2	25.3
699	2017-09-25 08:05:01	26.5	25.6
700	2017-09-25 08:15:01	27.1	25.9
701	2017-09-25 08:25:01	27.1	26.2
702	2017-09-25 08:35:01	27.3	26.3
703	2017-09-25 08:45:01	27.5	26.6
704	2017-09-25 08:55:01	27.8	26.7
705	2017-09-25 09:05:01	28	26.9
706	2017-09-25 09:15:01	28.3	27
707	2017-09-25 09:25:01	29.1	27.1
708	2017-09-25 09:35:01	29.8	27.5

709	2017-09-25 09:45:01	30	27.4
710	2017-09-25 09:55:01	29.8	27.3
711	2017-09-25 10:05:01	29.4	27.2
712	2017-09-25 10:15:01	29.6	27.3
713	2017-09-25 10:25:01	30.7	27.6
714	2017-09-25 10:35:01	31.8	27.7
715	2017-09-25 10:45:01	30.5	27.5
716	2017-09-25 10:55:01	30.6	27.5
717	2017-09-25 11:05:01	32.5	27.7
718	2017-09-25 11:15:01	33.9	27.9
719	2017-09-25 11:25:01	34.5	28
720	2017-09-25 11:35:01	35.1	28.3
721	2017-09-25 11:45:01	35.1	28.4
722	2017-09-25 11:55:01	35.1	28.5
723	2017-09-25 12:05:01	35.2	28.5
724	2017-09-25 12:15:01	35.6	28.6
725	2017-09-25 12:25:01	36.2	28.6
726	2017-09-25 12:35:01	35.9	28.7
727	2017-09-25 12:45:01	35.9	28.8
728	2017-09-25 12:55:01	35.8	28.8
729	2017-09-25 13:05:01	35.7	28.9
730	2017-09-25 13:15:01	35.9	29
731	2017-09-25 13:25:01	36	29
732	2017-09-25 13:35:01	35.5	29.2
733	2017-09-25 13:45:01	35.5	29.3
734	2017-09-25 13:55:01	35.4	29.3
735	2017-09-25 14:05:01	35.1	29.4
736	2017-09-25 14:15:01	34.9	29.4
737	2017-09-25 14:25:01	34.7	29.5
738	2017-09-25 14:35:01	33.6	29.5
739	2017-09-25 14:45:01	33.7	29.5
740	2017-09-25 14:55:01	33.4	29.7
741	2017-09-25 15:05:01	33.3	30
742	2017-09-25 15:15:01	33	29.9
743	2017-09-25 15:25:01	32.5	29.8
744	2017-09-25 15:35:01	32.1	29.9
745	2017-09-25 15:45:01	31.7	29.9
746	2017-09-25 15:55:01	31.4	30
747	2017-09-25 16:05:01	31	30
748	2017-09-25 16:15:01	30.6	30
749	2017-09-25 16:25:01	30.1	30
750	2017-09-25 16:35:01	30.1	30.5

751	2017-09-25 16:45:01	29.8	30.4
752	2017-09-25 16:55:01	29.5	30.5
753	2017-09-25 17:05:01	29.2	30.1
754	2017-09-25 17:15:01	29	29.2
755	2017-09-25 17:25:01	28.9	29.1
756	2017-09-25 17:35:01	28.7	28.9
757	2017-09-25 17:45:01	28.5	28.7
758	2017-09-25 17:55:01	28.3	28.4
759	2017-09-25 18:05:01	28	28
760	2017-09-25 18:15:01	28	27.9
761	2017-09-25 18:25:01	27.8	27.7
762	2017-09-25 18:35:01	27.7	27.7
763	2017-09-25 18:45:01	27.7	27.6
764	2017-09-25 18:55:01	27.5	27.5
765	2017-09-25 19:05:01	27.4	27.4
766	2017-09-25 19:15:01	27.3	27.4
767	2017-09-25 19:25:01	27.2	27.3
768	2017-09-25 19:35:01	27.1	27.4
769	2017-09-25 19:45:01	27	27.3
770	2017-09-25 19:55:01	27	27.3
771	2017-09-25 20:05:01	26.9	27.2
772	2017-09-25 20:15:01	26.8	27.2
773	2017-09-25 20:25:01	26.7	27
774	2017-09-25 20:35:01	26.6	27
775	2017-09-25 20:45:01	26.5	26.9
776	2017-09-25 20:55:01	26.5	27
777	2017-09-25 21:05:01	26.4	26.9
778	2017-09-25 21:15:01	26.5	26.9
779	2017-09-25 21:25:01	26.4	26.9
780	2017-09-25 21:35:01	26.3	26.8
781	2017-09-25 21:45:01	26.2	26.8
782	2017-09-25 21:55:01	26.2	26.7
783	2017-09-25 22:05:01	26.1	26.8
784	2017-09-25 22:15:01	26.1	26.6
785	2017-09-25 22:25:01	26.1	26.6
786	2017-09-25 22:35:01	26	26.5
787	2017-09-25 22:45:01	26	26.3
788	2017-09-25 22:55:01	25.9	26.2
789	2017-09-25 23:05:01	26	26.2
790	2017-09-25 23:15:01	26.1	26.3
791	2017-09-25 23:25:01	26.1	26.3
792	2017-09-25 23:35:01	26.1	26.2

793	2017-09-25 23:45:01	26	26.1
794	2017-09-25 23:55:01	25.9	26.2
795	2017-09-26 00:05:01	25.6	26.2
796	2017-09-26 00:15:01	25.5	26.1
797	2017-09-26 00:25:01	25.4	26
798	2017-09-26 00:35:01	25.3	25.8
799	2017-09-26 00:45:01	25.2	25.5
800	2017-09-26 00:55:01	25	25.4
801	2017-09-26 01:05:01	24.9	25.2
802	2017-09-26 01:15:01	24.7	25.2
803	2017-09-26 01:25:01	24.7	25.3
804	2017-09-26 01:35:01	24.5	25.3
805	2017-09-26 01:45:01	24.6	25.3
806	2017-09-26 01:55:01	24.5	25.3
807	2017-09-26 02:05:01	24.6	25.1
808	2017-09-26 02:15:01	24.7	25.1
809	2017-09-26 02:25:01	24.7	25.1
810	2017-09-26 02:35:01	24.7	25.2
811	2017-09-26 02:45:01	24.7	24.9
812	2017-09-26 02:55:01	24.7	24.9
813	2017-09-26 03:05:01	24.6	24.8
814	2017-09-26 03:15:01	24.6	24.8
815	2017-09-26 03:25:01	24.5	24.7
816	2017-09-26 03:35:01	24.4	24.7
817	2017-09-26 03:45:01	24.3	24.7
818	2017-09-26 03:55:01	24.2	24.6
819	2017-09-26 04:05:01	24.1	24.4
820	2017-09-26 04:15:01	24	24.3
821	2017-09-26 04:25:01	24	24.3
822	2017-09-26 04:35:01	24	24.3
823	2017-09-26 04:45:01	24	24.2
824	2017-09-26 04:55:01	23.8	24.2
825	2017-09-26 05:05:01	23.6	24.2
826	2017-09-26 05:15:01	23.5	24.1
827	2017-09-26 05:25:01	23.5	24
828	2017-09-26 05:35:01	23.8	24
829	2017-09-26 05:45:01	24	24
830	2017-09-26 05:55:01	23.7	23.7
831	2017-09-26 06:05:01	23.5	23.6
832	2017-09-26 06:15:01	23.5	23.7
833	2017-09-26 06:25:01	23.5	23.6
834	2017-09-26 06:35:01	23.5	23.6

835	2017-09-26 06:45:01	23.5	23.5
836	2017-09-26 06:55:01	23.5	23.7
837	2017-09-26 07:05:01	24	24
838	2017-09-26 07:15:01	24.1	24.1
839	2017-09-26 07:25:01	24.2	24
840	2017-09-26 07:35:01	24.4	24.2
841	2017-09-26 07:45:01	24.7	24.5
842	2017-09-26 07:55:01	25	24.8
843	2017-09-26 08:05:01	25.4	25
844	2017-09-26 08:15:01	25.8	25.3
845	2017-09-26 08:25:01	26.3	25.6
846	2017-09-26 08:35:01	26.5	25.9
847	2017-09-26 08:45:01	26.6	26.2
848	2017-09-26 08:55:01	27	26.3
849	2017-09-26 09:05:01	27.7	26.5
850	2017-09-26 09:15:01	28.4	26.6
851	2017-09-26 09:25:01	29	26.8
852	2017-09-26 09:35:01	30	26.9
853	2017-09-26 09:45:01	30.4	27
854	2017-09-26 09:55:01	30.4	27.1
855	2017-09-26 10:05:01	31	27.4
856	2017-09-26 10:15:01	31.7	27.4
857	2017-09-26 10:25:01	31.4	27.5
858	2017-09-26 10:35:01	31.1	27.5
859	2017-09-26 10:45:01	31.5	27.6
860	2017-09-26 10:55:01	32	27.6
861	2017-09-26 11:05:01	32.2	27.7
862	2017-09-26 11:15:01	32.1	27.7
863	2017-09-26 11:25:01	32.2	27.7
864	2017-09-26 11:35:01	33	27.8
865	2017-09-26 11:45:01	32.8	27.9
866	2017-09-26 11:55:01	33	27.9
867	2017-09-26 12:05:01	32.7	27.8
868	2017-09-26 12:15:01	33.3	27.9
869	2017-09-26 12:25:01	33.7	28
870	2017-09-26 12:35:01	33.9	28
871	2017-09-26 12:45:01	34.1	28.1
872	2017-09-26 12:55:01	34.2	28.2
873	2017-09-26 13:05:01	34.3	28.1
874	2017-09-26 13:15:01	34.1	28.1
875	2017-09-26 13:25:01	33.3	27.9
876	2017-09-26 13:35:01	33.6	28.2

877	2017-09-26 13:45:01	33.5	28.3
878	2017-09-26 13:55:01	33.1	28.2
879	2017-09-26 14:05:01	32.6	28.3
880	2017-09-26 14:15:01	33	28.3
881	2017-09-26 14:25:01	32.7	28.4
882	2017-09-26 14:35:01	32.2	28.6
883	2017-09-26 14:45:01	31.8	28.6
884	2017-09-26 14:55:01	31.7	28.9
885	2017-09-26 15:05:01	31	28.9
886	2017-09-26 15:15:01	30.5	28.8
887	2017-09-26 15:25:01	30.7	28.9
888	2017-09-26 15:35:01	30.3	28.8
889	2017-09-26 15:45:01	29.7	28.9
890	2017-09-26 15:55:01	29.8	28.9
891	2017-09-26 16:05:01	29.6	28.9
892	2017-09-26 16:15:01	29.4	28.9
893	2017-09-26 16:25:01	29	29.1
894	2017-09-26 16:35:01	29	29.5
895	2017-09-26 16:45:01	28.8	29.5
896	2017-09-26 16:55:01	28.7	29.7
897	2017-09-26 17:05:01	28.5	29.4
898	2017-09-26 17:15:01	28.4	28.6
899	2017-09-26 17:25:01	28.2	28.3
900	2017-09-26 17:35:01	28	28
901	2017-09-26 17:45:01	27.9	27.9
902	2017-09-26 17:55:01	27.7	27.7
903	2017-09-26 18:05:01	27.5	27.5
904	2017-09-26 18:15:01	27.4	27.3
905	2017-09-26 18:25:01	27	27
906	2017-09-26 18:35:01	26.9	26.9
907	2017-09-26 18:45:01	26.7	26.7
908	2017-09-26 18:55:01	26.5	26.6
909	2017-09-26 19:05:01	26.2	26.3
910	2017-09-26 19:15:01	26.2	26.3
911	2017-09-26 19:25:01	26.1	26.3
912	2017-09-26 19:35:01	26	26.2
913	2017-09-26 19:45:01	25.8	26.2
914	2017-09-26 19:55:01	25.8	26.1
915	2017-09-26 20:05:01	25.7	26.1
916	2017-09-26 20:15:01	25.7	26.1
917	2017-09-26 20:25:01	25.7	26
918	2017-09-26 20:35:01	25.6	26

919	2017-09-26 20:45:01	25.6	25.9
920	2017-09-26 20:55:01	25.4	25.8
921	2017-09-26 21:05:01	25.3	25.6
922	2017-09-26 21:15:01	25.1	25.6
923	2017-09-26 21:25:01	24.8	25.5
924	2017-09-26 21:35:01	24.7	25.5
925	2017-09-26 21:45:01	24.6	25.4
926	2017-09-26 21:55:01	24.7	25.3
927	2017-09-26 22:05:01	24.6	25.3
928	2017-09-26 22:15:01	24.5	25.2
929	2017-09-26 22:25:01	24.4	25.1
930	2017-09-26 22:35:01	24.3	25.1
931	2017-09-26 22:45:01	24.2	25
932	2017-09-26 22:55:01	24.2	24.9
933	2017-09-26 23:05:01	24.2	24.7
934	2017-09-26 23:15:01	24.3	24.8
935	2017-09-26 23:25:01	24.2	24.8
936	2017-09-26 23:35:01	24.2	24.8
937	2017-09-26 23:45:01	24	24.7
938	2017-09-26 23:55:01	24.1	24.7
939	2017-09-27 00:05:01	24.2	24.7
940	2017-09-27 00:15:01	24.1	24.8
941	2017-09-27 00:25:01	24	24.7
942	2017-09-27 00:35:01	23.9	24.5
943	2017-09-27 00:45:01	23.9	24.4
944	2017-09-27 00:55:01	24	24.4
945	2017-09-27 01:05:01	23.8	24.3
946	2017-09-27 01:15:01	23.7	24.2
947	2017-09-27 01:25:01	23.7	24.2
948	2017-09-27 01:35:01	23.6	24.1
949	2017-09-27 01:45:01	23.5	24
950	2017-09-27 01:55:01	23.5	24
951	2017-09-27 02:05:01	23.8	24.2
952	2017-09-27 02:15:01	24	24.2
953	2017-09-27 02:25:01	23.8	24.1
954	2017-09-27 02:35:01	23.5	24
955	2017-09-27 02:45:01	23.8	24.2
956	2017-09-27 02:55:01	23.5	24
957	2017-09-27 03:05:01	23.7	24
958	2017-09-27 03:15:01	24	24.2
959	2017-09-27 03:25:01	23.7	24
960	2017-09-27 03:35:01	23.7	24

961	2017-09-27 03:45:01	23.8	24
962	2017-09-27 03:55:01	23.8	24
963	2017-09-27 04:05:01	23.7	24
964	2017-09-27 04:15:01	23.6	24
965	2017-09-27 04:25:01	23.5	23.9
966	2017-09-27 04:35:01	23.5	23.9
967	2017-09-27 04:45:01	23.5	23.9
968	2017-09-27 04:55:01	23.4	23.8
969	2017-09-27 05:05:01	23.5	23.7
970	2017-09-27 05:15:01	23.4	23.7
971	2017-09-27 05:25:01	23.5	23.8
972	2017-09-27 05:35:01	23.6	23.8
973	2017-09-27 05:45:01	23.5	23.7
974	2017-09-27 05:55:01	23.5	23.6
975	2017-09-27 06:05:01	23.5	23.7
976	2017-09-27 06:15:01	23.6	23.7
977	2017-09-27 06:25:01	23.7	23.8
978	2017-09-27 06:35:01	23.7	23.8
979	2017-09-27 06:45:01	23.7	23.9
980	2017-09-27 06:55:01	23.8	24
981	2017-09-27 07:05:01	24	24
982	2017-09-27 07:15:01	24	24
983	2017-09-27 07:25:01	24	24
984	2017-09-27 07:35:01	24.1	24.1
985	2017-09-27 07:45:01	24.4	24.3
986	2017-09-27 07:55:01	24.8	24.7
987	2017-09-27 08:05:01	25.2	24.9
988	2017-09-27 08:15:01	26.8	26.8
989	2017-09-27 08:25:01	27	27
990	2017-09-27 08:35:01	27.2	27.2
991	2017-09-27 08:45:01	27.2	27.2
992	2017-09-27 08:55:01	27.2	27.2
993	2017-09-27 09:05:01	27.1	27.2
994	2017-09-27 09:15:01	27.1	27.1
995	2017-09-27 09:25:01	27.1	27.1
996	2017-09-27 09:35:01	27.1	27.1
997	2017-09-27 09:45:01	27	27.1
998	2017-09-27 09:55:01	27	27
999	2017-09-27 10:05:01	27	27
1000	2017-09-27 10:15:01	27	27
1001	2017-09-27 10:25:01	27	27

## Appendix: 2 Less urbanise area and urban area temperatures

Number	date	Less urbanise altitude 13m Temperature°C	Urban altitude 13m Temperature°C	Less urbanise altitude 34m Temperature°C	Urban altitude 34m Temperature°C
1	2017-10-20 00:14:32	21.6	22.9	19.6	20.5
2	2017-10-20 00:29:32	21.5	22.8	19.6	20.5
3	2017-10-20 00:44:32	21.5	22.7	19.5	20.4
4	2017-10-20 00:59:32	21.4	22.6	19.3	20.3
5	2017-10-20 01:14:32	21.3	22.5	19.2	20.3
6	2017-10-20 01:29:32	21.2	22.4	19.1	20.3
7	2017-10-20 01:44:32	21.2	22.2	19	20.2
8	2017-10-20 01:59:32	20.9	22.2	18.9	20
9	2017-10-20 02:14:32	20.8	22.1	18.7	20
10	2017-10-20 02:29:32	20.6	22	18.6	19.9
11	2017-10-20 02:44:32	20.6	21.9	18.5	19.8
12	2017-10-20 02:59:32	20.4	21.8	18.5	19.7
13	2017-10-20 03:14:32	20.3	21.7	18.4	19.6
14	2017-10-20 03:29:32	20.4	21.7	18.2	19.5
15	2017-10-20 03:44:32	20.2	21.7	18.2	19.4
16	2017-10-20 03:59:32	20.3	21.6	18.1	19.6
17	2017-10-20 04:14:32	20.4	21.6	18	19.5
18	2017-10-20 04:29:32	20.3	21.6	18	19.4
19	2017-10-20 04:44:32	19.9	21.6	18	19.2
20	2017-10-20 04:59:32	19.8	21.5	18	18.9
21	2017-10-20 05:14:32	19.5	21.3	17.8	18.8
22	2017-10-20 05:29:32	19.3	21.2	17.6	18.7
23	2017-10-20 05:44:32	19.3	21.1	17.4	18.6
24	2017-10-20 05:59:32	19.3	21	17.2	18.7
25	2017-10-20 06:14:32	19.2	20.9	17.1	18.6
26	2017-10-20 06:29:32	19.3	20.9	16.9	18.6
27	2017-10-20 06:44:32	19.6	20.9	16.8	18.6
28	2017-10-20 06:59:32	19.8	20.9	16.8	18.6
29	2017-10-20 07:14:32	19.9	20.9	16.8	18.7
30	2017-10-20 07:29:32	20	20.9	17.1	18.9
31	2017-10-20 07:44:32	20.5	20.9	17.4	19.1
32	2017-10-20 07:59:32	21.3	21	18	19.2
33	2017-10-20 08:14:32	22.2	21.3	18.9	19.8
34	2017-10-20 08:29:32	23.3	21.5	20	20.5
35	2017-10-20 08:44:32	24.2	21.7	21.2	21.3

36	2017-10-20 08:59:32	25.7	22	22.3	22.1
37	2017-10-20 09:14:32	26.2	22.2	23.5	22.6
38	2017-10-20 09:29:32	25.8	22.4	24.5	23.1
39	2017-10-20 09:44:32	25.8	22.7	25.4	23.5
40	2017-10-20 09:59:32	25.9	22.9	26.2	23.9
41	2017-10-20 10:14:32	25.6	23.2	26.7	24.4
42	2017-10-20 10:29:32	25.6	23.4	26.9	25.4
43	2017-10-20 10:44:32	25.8	23.5	27.2	26
44	2017-10-20 10:59:32	25.9	23.7	27.4	26.3
45	2017-10-20 11:14:32	26	23.8	27.5	26.4
46	2017-10-20 11:29:32	26.2	24	27.5	26.7
47	2017-10-20 11:44:32	26.2	24.2	27.7	26.8
48	2017-10-20 11:59:32	26.3	24.4	27.7	26.7
49	2017-10-20 12:14:32	26.2	24.6	27.7	27
50	2017-10-20 12:29:32	26.3	24.8	27.6	27
51	2017-10-20 12:44:32	26.2	25.2	27.5	27
52	2017-10-20 12:59:32	25.9	25.4	27.6	27
53	2017-10-20 13:14:32	26.2	25.5	27.7	26.9
54	2017-10-20 13:29:32	26.6	25.6	27.3	27
55	2017-10-20 13:44:32	26.6	25.8	27.3	26.9
56	2017-10-20 13:59:32	26.5	25.9	27.3	26.7
57	2017-10-20 14:14:32	26.4	26	27.2	26.7
58	2017-10-20 14:29:32	26.6	26.1	27.1	26.7
59	2017-10-20 14:44:32	26.6	26.1	26.9	26.7
60	2017-10-20 14:59:32	26.9	26.2	26.9	26.8
61	2017-10-20 15:14:32	26.7	26.2	26.5	26.9
62	2017-10-20 15:29:32	26.4	26.2	26.2	26.9
63	2017-10-20 15:44:32	26.2	26.2	26.1	27
64	2017-10-20 15:59:32	26.3	26.1	26.1	26.9
65	2017-10-20 16:14:32	26.2	26	26	26.6
66	2017-10-20 16:29:32	26.2	25.8	25.9	26.5
67	2017-10-20 16:44:32	26.5	25.9	25.9	26.5
68	2017-10-20 16:59:32	26.6	25.8	25.8	26.3
69	2017-10-20 17:14:32	26.3	25.6	25.5	26
70	2017-10-20 17:29:32	26	25.5	25.4	25.6
71	2017-10-20 17:44:32	25.5	25.4	25.3	25.2
72	2017-10-20 17:59:32	25.2	25.4	24.9	24.7
73	2017-10-20 18:14:32	24.9	25.3	24.6	24.1
74	2017-10-20 18:29:32	24.6	25.2	24.4	23.6
75	2017-10-20 18:44:32	24.2	25	24	23.3
76	2017-10-20 18:59:32	24	24.9	23.4	23
77	2017-10-20 19:14:32	23.8	24.8	22.9	22.8

78	2017-10-20 19:29:32	23.7	24.7	23	22.6
79	2017-10-20 19:44:32	23.5	24.7	22.5	22.5
80	2017-10-20 19:59:32	23.5	24.6	22.2	22.4
81	2017-10-20 20:14:32	23.3	24.5	21.9	22.2
82	2017-10-20 20:29:32	23.1	24.4	21.7	22.1
83	2017-10-20 20:44:32	23.1	24.4	21.6	22.1
84	2017-10-20 20:59:32	22.9	24.3	21.5	22
85	2017-10-20 21:14:32	22.9	24.2	21.3	21.8
86	2017-10-20 21:29:32	22.7	24	21.1	21.6
87	2017-10-20 21:44:32	22.4	24	20.9	21.5
88	2017-10-20 21:59:32	22.2	23.9	20.8	21.3
89	2017-10-20 22:14:32	22.2	23.7	20.6	21.1
90	2017-10-20 22:29:32	22.1	23.7	20.4	20.9
91	2017-10-20 22:44:32	22	23.5	20.3	20.8
92	2017-10-20 22:59:32	21.8	23.4	20	20.5
93	2017-10-20 23:14:32	21.6	23.2	19.8	20.3
94	2017-10-20 23:29:32	21.4	22.9	19.7	20.1
95	2017-10-20 23:44:32	21.2	22.8	19.4	20
96	2017-10-20 23:59:32	21	22.7	19.2	19.9
97	2017-10-21 00:14:32	21	22.6	19.2	19.8
98	2017-10-21 00:29:32	20.9	22.5	19.1	19.6
99	2017-10-21 00:44:32	20.6	22.2	18.8	19.4
100	2017-10-21 00:59:32	20.4	22.2	18.6	19.2
101	2017-10-21 01:14:32	20.3	21.9	18.3	19.2
102	2017-10-21 01:29:32	20.1	21.7	18	19.1
103	2017-10-21 01:44:32	19.9	21.7	17.9	18.8
104	2017-10-21 01:59:32	19.8	21.6	17.8	18.7
105	2017-10-21 02:14:32	19.6	21.6	17.4	18.6
106	2017-10-21 02:29:32	19.3	21.5	17.3	18.4
107	2017-10-21 02:44:32	19.3	21.4	17.1	18.3
108	2017-10-21 02:59:32	19.4	21.3	17	18.3
109	2017-10-21 03:14:32	19.4	21.2	16.9	18.2
110	2017-10-21 03:29:32	19.2	21.2	16.9	18.3
111	2017-10-21 03:44:32	19.2	21.2	17	18.5
112	2017-10-21 03:59:32	19.4	21.3	16.9	18.8
113	2017-10-21 04:14:32	19.5	21.4	17	19
114	2017-10-21 04:29:32	19.6	21.5	17.3	19.2
115	2017-10-21 04:44:32	19.7	21.5	17.4	19.5
116	2017-10-21 04:59:32	19.6	21.5	17.5	19.4
117	2017-10-21 05:14:32	19.5	21.5	17.6	19.2
118	2017-10-21 05:29:32	19.4	21.4	17.7	19.1
119	2017-10-21 05:44:32	19.5	21.3	17.6	19

120	2017-10-21 05:59:32	19.3	21.3	17.7	19
121	2017-10-21 06:14:32	19.3	21.2	17.7	18.8
122	2017-10-21 06:29:32	19.2	21.2	17.6	18.8
123	2017-10-21 06:44:32	19.2	21.1	17.6	18.8
124	2017-10-21 06:59:32	19.5	21.2	17.5	18.8
125	2017-10-21 07:14:32	19.4	21.2	17.6	18.8
126	2017-10-21 07:29:32	19.6	21.2	17.7	18.9
127	2017-10-21 07:44:32	20.1	21.3	18	19.1
128	2017-10-21 07:59:32	20.7	21.4	18.5	19.5
129	2017-10-21 08:14:32	21.5	21.5	19.2	19.8
130	2017-10-21 08:29:32	22.3	21.6	20.2	20.2
131	2017-10-21 08:44:32	23.3	21.8	21.2	20.9
132	2017-10-21 08:59:32	25	22.1	22.4	21.6
133	2017-10-21 09:14:32	25.8	22.2	23.5	22.3
134	2017-10-21 09:29:32	26.2	22.5	24.4	22.8
135	2017-10-21 09:44:32	26.4	22.6	25.4	23.2
136	2017-10-21 09:59:32	26.4	22.9	26.1	23.6
137	2017-10-21 10:14:32	26.5	23	26.5	24
138	2017-10-21 10:29:32	25.7	23.2	26.9	25
139	2017-10-21 10:44:32	25.8	23.5	27.1	25.7
140	2017-10-21 10:59:32	26.2	23.7	27.3	26.1
141	2017-10-21 11:14:32	26.5	23.9	27.7	26.3
142	2017-10-21 11:29:32	25.8	24	27.9	26.4
143	2017-10-21 11:44:32	26.2	24.1	27.7	26.8
144	2017-10-21 11:59:32	26.3	24.2	27.8	26.7
145	2017-10-21 12:14:32	26	24.5	27.7	26.7
146	2017-10-21 12:29:32	26	24.7	27.6	26.9
147	2017-10-21 12:44:32	26.1	24.9	27.7	26.8
148	2017-10-21 12:59:32	26.5	25	27.7	26.8
149	2017-10-21 13:14:32	26.2	25.2	27.9	26.8
150	2017-10-21 13:29:32	26.4	25.1	27.5	26.7
151	2017-10-21 13:44:32	27.2	25.2	27.6	26.5
152	2017-10-21 13:59:32	27.7	25.4	27.6	24.5
153	2017-10-21 14:14:32	27	25.4	27.3	23.6
154	2017-10-21 14:29:32	26.7	25.4	27.2	24.1
155	2017-10-21 14:44:32	27.7	25.6	27	24.5
156	2017-10-21 14:59:32	27.8	25.5	26.8	25.1
157	2017-10-21 15:14:32	26.9	25.5	26.5	25.7
158	2017-10-21 15:29:32	26.6	25.5	26.1	25.9
159	2017-10-21 15:44:32	27	25.5	25.6	26.2
160	2017-10-21 15:59:32	26.9	25.4	25.5	26.3
161	2017-10-21 16:14:32	27	25.4	25.3	26.2

162	2017-10-21 16:29:32	27	25.3	25.2	25.6
163	2017-10-21 16:44:32	26.6	25.2	25	24.9
164	2017-10-21 16:59:32	26.2	25.1	24.9	24.8
165	2017-10-21 17:14:32	25.5	25	24.7	24.4
166	2017-10-21 17:29:32	25.2	24.9	24.5	24.1
167	2017-10-21 17:44:32	25	24.7	24.3	23.9
168	2017-10-21 17:59:32	24.7	24.6	24.2	23.6
169	2017-10-21 18:14:32	24.6	24.5	24	23.4
170	2017-10-21 18:29:32	24.3	24.5	23.7	23.1
171	2017-10-21 18:44:32	24.1	24.3	23.5	22.8
172	2017-10-21 18:59:32	23.8	24.2	23.3	22.7
173	2017-10-21 19:14:32	23.6	24	23.1	22.4
174	2017-10-21 19:29:32	23.5	24	22.9	22.3
175	2017-10-21 19:44:32	23.4	23.9	22.9	22.2
176	2017-10-21 19:59:32	23.2	23.8	22.7	22.1
177	2017-10-21 20:14:32	23	23.7	22.2	21.9
178	2017-10-21 20:29:32	22.9	23.6	21.8	21.7
179	2017-10-21 20:44:32	22.5	23.6	21.4	21.5
180	2017-10-21 20:59:32	22.3	23.5	21	21.3
181	2017-10-21 21:14:32	22.2	23.4	20.7	21.1
182	2017-10-21 21:29:32	22	23.3	20.4	20.9
183	2017-10-21 21:44:32	21.9	23.2	20.3	20.8
184	2017-10-21 21:59:32	21.8	23	20	20.6
185	2017-10-21 22:14:32	21.7	22.9	19.8	20.5
186	2017-10-21 22:29:32	21.8	22.9	19.8	20.4
187	2017-10-21 22:44:32	21.6	22.7	19.6	20.3
188	2017-10-21 22:59:32	21.5	22.6	19.5	20
189	2017-10-21 23:14:32	21	22.4	19.5	19.8
190	2017-10-21 23:29:32	20.9	22.3	19.2	19.6
191	2017-10-21 23:44:32	20.9	22.2	19.2	19.5
192	2017-10-21 23:59:32	20.9	22.2	19.1	19.5
193	2017-10-22 00:14:32	21	22.2	19	19.6
194	2017-10-22 00:29:32	21	22.2	19	19.6
195	2017-10-22 00:44:32	20.9	22.1	19	19.4
196	2017-10-22 00:59:32	20.9	22.1	19	19.3
197	2017-10-22 01:14:32	20.8	22.1	18.9	19.2
198	2017-10-22 01:29:32	20.7	22	18.8	19.1
199	2017-10-22 01:44:32	20.5	21.9	18.6	18.9
200	2017-10-22 01:59:32	20.4	21.7	18.5	18.8
201	2017-10-22 02:14:32	20.3	21.7	18.3	18.7
202	2017-10-22 02:29:32	20.3	21.6	18.2	18.6
203	2017-10-22 02:44:32	20.4	21.5	18.1	18.6

204	2017-10-22 02:59:32	20.4	21.5	18	18.6
205	2017-10-22 03:14:32	20.5	21.4	18	18.6
206	2017-10-22 03:29:32	20.4	21.3	18	18.6
207	2017-10-22 03:44:32	20.3	21.3	17.9	18.5
208	2017-10-22 03:59:32	19.9	21.2	17.8	18.5
209	2017-10-22 04:14:32	19.9	21.1	17.7	18.6
210	2017-10-22 04:29:32	19.8	21	17.5	18.4
211	2017-10-22 04:44:32	19.8	20.9	17.4	18.4
212	2017-10-22 04:59:32	19.8	20.9	17.4	18.3
213	2017-10-22 05:14:32	19.6	20.9	17.3	18.3
214	2017-10-22 05:29:32	19.6	20.8	17.2	18.2
215	2017-10-22 05:44:32	19.5	20.6	17.1	18.1
216	2017-10-22 05:59:32	19.5	20.6	17	18.1
217	2017-10-22 06:14:32	19.3	20.6	17	18.1
218	2017-10-22 06:29:32	19.4	20.5	17	18
219	2017-10-22 06:44:32	19.3	20.5	17.1	18
220	2017-10-22 06:59:32	19.6	20.5	17.1	18.2
221	2017-10-22 07:14:32	19.8	20.4	17.2	18.2
222	2017-10-22 07:29:32	20	20.5	17.4	18.3
223	2017-10-22 07:44:32	20.3	20.5	17.7	18.6
224	2017-10-22 07:59:32	21	20.6	18.2	19.1
225	2017-10-22 08:14:32	21.7	20.9	19	19.7
226	2017-10-22 08:29:32	22.5	21	19.9	20.3
227	2017-10-22 08:44:32	23.3	21.2	21	20.9
228	2017-10-22 08:59:32	24.9	21.5	22.3	21.4
229	2017-10-22 09:14:32	25.4	21.6	23.3	21.8
230	2017-10-22 09:29:32	25.1	21.8	24.1	22.2
231	2017-10-22 09:44:32	24.8	22.1	24.7	22.4
232	2017-10-22 09:59:32	24.7	22.3	24.9	22.9
233	2017-10-22 10:14:32	24.8	22.6	25.3	23.5
234	2017-10-22 10:29:32	24.7	22.8	25.7	24.4
235	2017-10-22 10:44:32	25	22.9	26.2	25.1
236	2017-10-22 10:59:32	24.9	23.2	26.5	25.3
237	2017-10-22 11:14:32	25.1	23.5	26.7	25.6
238	2017-10-22 11:29:32	25.2	23.6	27.1	25.8
239	2017-10-22 11:44:32	25.1	23.8	27.5	26.1
240	2017-10-22 11:59:32	25.4	24	27	26.1
241	2017-10-22 12:14:32	25.5	24.1	27	26.1
242	2017-10-22 12:29:32	25.4	24.5	27	26.1
243	2017-10-22 12:44:32	25.7	24.7	27	26.1
244	2017-10-22 12:59:32	25.9	24.8	26.9	26
245	2017-10-22 13:14:32	25.7	24.9	26.8	26

246	2017-10-22 13:29:32	25.4	25	26.7	26.1
247	2017-10-22 13:44:32	25.8	25.2	26.6	25.9
248	2017-10-22 13:59:32	25.7	25.4	26.6	25.9
249	2017-10-22 14:14:32	25.6	25.4	26.4	25.8
250	2017-10-22 14:29:32	25.4	25.4	26.3	25.7
251	2017-10-22 14:44:32	25.4	25.4	25.9	25.8
252	2017-10-22 14:59:32	25.4	25.5	25.9	25.7
253	2017-10-22 15:14:32	25.4	25.4	25.5	25.6
254	2017-10-22 15:29:32	25.4	25.4	25.2	25.7
255	2017-10-22 15:44:32	25.4	25.4	24.8	25.5
256	2017-10-22 15:59:32	25.2	25.3	24.7	25.5
257	2017-10-22 16:14:32	25.1	25.2	24.6	25.3
258	2017-10-22 16:29:32	25.2	25.2	24.5	25.2
259	2017-10-22 16:44:32	24.9	25	24.3	24.9
260	2017-10-22 16:59:32	24.8	24.8	24.2	24.8
261	2017-10-22 17:14:32	24.1	24.7	24.1	24.6
262	2017-10-22 17:29:32	23.5	24.6	24	24.2
263	2017-10-22 17:44:32	23.6	24.4	23.7	23.8
264	2017-10-22 17:59:32	23.7	24.3	23.5	23.5
265	2017-10-22 18:14:32	23.7	24.2	23.2	23.1
266	2017-10-22 18:29:32	23.5	24.2	23.2	22.7
267	2017-10-22 18:44:32	23.2	24.1	22.9	22.3
268	2017-10-22 18:59:32	23	24	22.8	22.2
269	2017-10-22 19:14:32	22.9	24	22.7	22.1
270	2017-10-22 19:29:32	22.9	23.9	22.8	21.9
271	2017-10-22 19:44:32	22.6	23.8	22.5	21.6
272	2017-10-22 19:59:32	22.4	23.6	22.2	21.5
273	2017-10-22 20:14:32	22.1	23.5	21.8	21.2
274	2017-10-22 20:29:32	21.9	23.4	21.4	21
275	2017-10-22 20:44:32	21.6	23.3	20.9	20.9
276	2017-10-22 20:59:32	21.5	23.2	20.6	20.7
277	2017-10-22 21:14:32	21.5	23	20.3	20.6
278	2017-10-22 21:29:32	21.3	22.9	20.1	20.4
279	2017-10-22 21:44:32	21.1	22.8	19.9	20.3
280	2017-10-22 21:59:32	21	22.8	19.8	20.3
281	2017-10-22 22:14:32	20.9	22.6	19.6	20.1
282	2017-10-22 22:29:32	20.9	22.5	19.4	19.9
283	2017-10-22 22:44:32	20.8	22.4	19.2	19.8
284	2017-10-22 22:59:32	20.9	22.2	19.1	19.6
285	2017-10-22 23:14:32	20.7	22.1	18.9	19.4
286	2017-10-22 23:29:32	20.6	22	18.7	19.3
287	2017-10-22 23:44:32	20.6	21.9	18.6	19.2

288	2017-10-22 23:59:32	20.4	21.9	18.5	19.2
289	2017-10-23 00:14:32	20.5	21.7	18.4	19.2
290	2017-10-23 00:29:32	20.3	21.6	18.3	19
291	2017-10-23 00:44:32	20.2	21.6	18.2	18.9
292	2017-10-23 00:59:32	20	21.5	18.1	18.7
293	2017-10-23 01:14:32	20	21.4	18	18.7
294	2017-10-23 01:29:32	20	21.3	17.9	18.6
295	2017-10-23 01:44:32	19.9	21.1	17.9	18.5
296	2017-10-23 01:59:32	20	21.1	17.8	18.3
297	2017-10-23 02:14:32	19.9	21.1	17.7	18.3
298	2017-10-23 02:29:32	19.8	20.9	17.6	18.3
299	2017-10-23 02:44:32	19.8	20.9	17.5	18.2
300	2017-10-23 02:59:32	19.7	20.9	17.4	18.1
301	2017-10-23 03:14:32	19.5	20.8	17.4	18.1
302	2017-10-23 03:29:32	19.3	20.8	17.3	18
303	2017-10-23 03:44:32	19.3	20.7	17.3	18.2
304	2017-10-23 03:59:32	19.3	20.5	17.2	18.2
305	2017-10-23 04:14:32	19.1	20.5	17.1	18
306	2017-10-23 04:29:32	19	20.4	17	17.9
307	2017-10-23 04:44:32	19.1	20.4	16.9	18
308	2017-10-23 04:59:32	19.2	20.3	16.9	18.2
309	2017-10-23 05:14:32	19.7	20.3	17.1	18.4
310	2017-10-23 05:29:32	19.9	20.4	17.2	18.6
311	2017-10-23 05:44:32	20	20.4	17.3	18.7
312	2017-10-23 05:59:32	20.1	20.5	17.5	18.9
313	2017-10-23 06:14:32	20.1	20.5	17.6	18.9
314	2017-10-23 06:29:32	20.2	20.5	17.7	18.8
315	2017-10-23 06:44:32	20	20.5	17.7	18.8
316	2017-10-23 06:59:32	19.9	20.5	17.9	18.7
317	2017-10-23 07:14:32	19.8	20.4	17.9	18.9
318	2017-10-23 07:29:32	19.8	20.5	18	19.1
319	2017-10-23 07:44:32	20.2	20.5	18.3	19.2
320	2017-10-23 07:59:32	20.8	20.6	18.9	19.4
321	2017-10-23 08:14:32	21.5	20.8	19.8	19.8
322	2017-10-23 08:29:32	22.2	20.9	20.5	20.3
323	2017-10-23 08:44:32	22.8	21	21.7	20.8
324	2017-10-23 08:59:32	24.2	21.3	22.8	21.5
325	2017-10-23 09:14:32	24.7	21.5	23.5	22.1
326	2017-10-23 09:29:32	24.7	21.7	24.1	22.7
327	2017-10-23 09:44:32	25	21.9	24.7	23
328	2017-10-23 09:59:32	24.5	22.2	25	23.5
329	2017-10-23 10:14:32	24.5	22.4	25.2	23.7

330	2017-10-23 10:29:32	24.7	22.7	25.4	24.4
331	2017-10-23 10:44:32	24.7	22.9	25.6	24.9
332	2017-10-23 10:59:32	25	23	25.7	25.3
333	2017-10-23 11:14:32	24.7	23.2	26	25.4
334	2017-10-23 11:29:32	24.9	23.4	26.4	25.7
335	2017-10-23 11:44:32	24.7	23.5	26.5	25.8
336	2017-10-23 11:59:32	25.4	23.8	26.5	26.1
337	2017-10-23 12:14:32	25.2	23.9	26.8	26.1
338	2017-10-23 12:29:32	25.2	24	26.4	25.3
339	2017-10-23 12:44:32	25.1	24.3	26.2	24.9
340	2017-10-23 12:59:32	25.2	24.4	26.2	25.2
341	2017-10-23 13:14:32	25.5	24.5	26.2	25
342	2017-10-23 13:29:32	25.5	24.7	26	25.4
343	2017-10-23 13:44:32	25.2	24.8	25.9	25.3
344	2017-10-23 13:59:32	25.4	24.9	25.9	25.4
345	2017-10-23 14:14:32	25.1	25	25.8	25.5
346	2017-10-23 14:29:32	25.4	25	25.7	25.5
347	2017-10-23 14:44:32	25.4	25.1	25.6	25.4
348	2017-10-23 14:59:32	25.4	25.1	25.4	25.4
349	2017-10-23 15:14:32	25.7	25.2	25.2	25.5
350	2017-10-23 15:29:32	25.6	25.1	25.1	25.6
351	2017-10-23 15:44:32	25.4	25.1	24.8	25.5
352	2017-10-23 15:59:32	25.2	25.1	24.7	25.5
353	2017-10-23 16:14:32	24.9	25	24.7	25.2
354	2017-10-23 16:29:32	25	24.9	24.6	25.2
355	2017-10-23 16:44:32	24.8	24.8	24.5	24.9
356	2017-10-23 16:59:32	24.5	24.7	24.5	24.7
357	2017-10-23 17:14:32	24.3	24.6	24.4	24.4
358	2017-10-23 17:29:32	24.1	24.5	24.3	24.2
359	2017-10-23 17:44:32	24	24.4	24.1	23.9
360	2017-10-23 17:59:32	23.8	24.2	23.9	23.5
361	2017-10-23 18:14:32	23.5	24.1	23.6	23
362	2017-10-23 18:29:32	23.3	24	23.2	22.8
363	2017-10-23 18:44:32	23.1	23.7	22.9	22.5
364	2017-10-23 18:59:32	23	23.5	22.6	22.2
365	2017-10-23 19:14:32	23	23.5	22.2	22
366	2017-10-23 19:29:32	23	23.5	22	21.8
367	2017-10-23 19:44:32	22.9	23.5	21.8	21.6
368	2017-10-23 19:59:32	22.8	23.5	21.5	21.6
369	2017-10-23 20:14:32	22.6	23.3	21.1	21.4
370	2017-10-23 20:29:32	22.2	23.2	20.9	21.2
371	2017-10-23 20:44:32	22.1	23.1	20.6	21

372	2017-10-23 20:59:32	21.9	22.9	20.7	20.9
373	2017-10-23 21:14:32	21.9	22.8	20.3	20.8
374	2017-10-23 21:29:32	21.8	22.7	20.1	20.7
375	2017-10-23 21:44:32	21.7	22.7	19.9	20.5
376	2017-10-23 21:59:32	21.6	22.6	19.7	20.4
377	2017-10-23 22:14:32	21.6	22.4	19.5	20.3
378	2017-10-23 22:29:32	21.6	22.3	19.3	20.3
379	2017-10-23 22:44:32	21.6	22.2	19.2	20.2
380	2017-10-23 22:59:32	21.5	22.1	19.1	20.1
381	2017-10-23 23:14:32	21.4	22.1	19	19.9
382	2017-10-23 23:29:32	21.2	22.1	18.9	19.8
383	2017-10-23 23:44:32	21.1	21.9	18.8	19.8
384	2017-10-23 23:59:32	21.2	21.9	18.7	19.8
385	2017-10-24 00:14:32	21.1	21.9	18.6	19.7
386	2017-10-24 00:29:32	20.9	21.9	18.6	19.6
387	2017-10-24 00:44:32	20.8	21.9	18.5	19.5
388	2017-10-24 00:59:32	20.9	21.8	18.5	19.4
389	2017-10-24 01:14:32	20.8	21.7	18.4	19.3
390	2017-10-24 01:29:32	20.5	21.5	18.4	19.2
391	2017-10-24 01:44:32	20.3	21.5	18.3	19.4
392	2017-10-24 01:59:32	20.3	21.3	18.4	19.8
393	2017-10-24 02:14:32	20.3	21.3	18.4	19.8
394	2017-10-24 02:29:32	20.1	21.4	18.3	19.4
395	2017-10-24 02:44:32	19.8	21.3	18.2	19.1
396	2017-10-24 02:59:32	19.8	21.2	18.1	19
397	2017-10-24 03:14:32	19.7	21.1	18	18.9
398	2017-10-24 03:29:32	19.7	21	17.8	18.9
399	2017-10-24 03:44:32	19.6	20.9	17.6	18.9
400	2017-10-24 03:59:32	19.7	20.8	17.6	18.8
401	2017-10-24 04:14:32	19.6	20.8	17.5	18.8
402	2017-10-24 04:29:32	19.7	20.7	17.4	19
403	2017-10-24 04:44:32	19.5	20.7	17.4	18.9
404	2017-10-24 04:59:32	19.4	20.7	17.4	19.1
405	2017-10-24 05:14:32	19.3	20.6	17.4	19.2
406	2017-10-24 05:29:32	19.2	20.6	17.3	19.2
407	2017-10-24 05:44:32	19.2	20.5	17.2	19.3
408	2017-10-24 05:59:32	19.2	20.5	17.2	19.5
409	2017-10-24 06:14:32	19.1	20.4	17.2	19.8
410	2017-10-24 06:29:32	19.2	20.4	17.3	20
411	2017-10-24 06:44:32	19.8	20.4	17.4	20.2
412	2017-10-24 06:59:32	20.1	20.5	17.4	20.3
413	2017-10-24 07:14:32	20.3	20.5	17.4	20.4

414	2017-10-24 07:29:32	20.9	20.5	17.5	20.6
415	2017-10-24 07:44:32	21.3	20.6	17.9	20.6
416	2017-10-24 07:59:32	21.5	20.7	18.6	20.9
417	2017-10-24 08:14:32	21.9	20.8	20.1	21.1
418	2017-10-24 08:29:32	22.2	21.1	21.2	21.5
419	2017-10-24 08:44:32	22.8	21.5	22.2	21.7
420	2017-10-24 08:59:32	24	21.9	22.9	22.2
421	2017-10-24 09:14:32	24.6	22.3	23.6	22.7
422	2017-10-24 09:29:32	24.5	22.6	23.7	22.9
423	2017-10-24 09:44:32	23.7	22.6	23.5	22.8
424	2017-10-24 09:59:32	24.4	22.6	24	23.3
425	2017-10-24 10:14:32	24.9	23.1	24.7	23.7
426	2017-10-24 10:29:32	25.2	23.5	25.2	24.7
427	2017-10-24 10:44:32	25.4	23.7	25.6	25.4
428	2017-10-24 10:59:32	25.7	23.9	26.2	25.6
429	2017-10-24 11:14:32	25.9	24	26	25.7
430	2017-10-24 11:29:32	26.2	24.1	26.6	26.2
431	2017-10-24 11:44:32	27	24.3	27.1	27.1
432	2017-10-24 11:59:32	27.4	24.8	27.7	27.5
433	2017-10-24 12:14:32	27.1	25.1	28	27.7
434	2017-10-24 12:29:32	27.4	25.4	27.5	27.9
435	2017-10-24 12:44:32	27.7	25.4	27.5	28.3
436	2017-10-24 12:59:32	27.7	25.4	27.9	27.8
437	2017-10-24 13:14:32	27	25.6	28.5	27.8
438	2017-10-24 13:29:32	26.9	25.7	28.8	27.1
439	2017-10-24 13:44:32	26.7	25.6	28.4	26.6
440	2017-10-24 13:59:32	26.4	25.6	28.4	26.1
441	2017-10-24 14:14:32	25.3	25.5	27.7	25.6
442	2017-10-24 14:29:32	25.5	25.4	27.1	25.6
443	2017-10-24 14:44:32	25.6	25	26.6	25.4
444	2017-10-24 14:59:32	26.3	24.9	26.3	26
445	2017-10-24 15:14:32	26.6	25.1	26.2	26.3
446	2017-10-24 15:29:32	27	25.2	26.3	26.2
447	2017-10-24 15:44:32	27.2	25.2	26	26.2
448	2017-10-24 15:59:32	27	25.2	25.7	26.1
449	2017-10-24 16:14:32	26.6	25.1	25.4	26
450	2017-10-24 16:29:32	25.7	24.8	25.3	25.6
451	2017-10-24 16:44:32	25.4	24.8	25.1	25.1
452	2017-10-24 16:59:32	24.9	24.7	24.9	24.7
453	2017-10-24 17:14:32	24.7	24.6	24.7	24.5
454	2017-10-24 17:29:32	24.5	24.5	24.6	24.3
455	2017-10-24 17:44:32	24.2	24.4	24.3	23.9

456	2017-10-24 17:59:32	24	24.2	24	23.5
457	2017-10-24 18:14:32	23.6	24.2	23.7	23.1
458	2017-10-24 18:29:32	23.3	24	23.3	22.8
459	2017-10-24 18:44:32	23.2	23.9	22.9	22.6
460	2017-10-24 18:59:32	23	23.7	22.6	22.4
461	2017-10-24 19:14:32	22.9	23.6	22.2	22.4
462	2017-10-24 19:29:32	22.9	23.5	21.9	22.3
463	2017-10-24 19:44:32	22.8	23.5	21.7	22.2
464	2017-10-24 19:59:32	22.6	23.4	21.4	22.1
465	2017-10-24 20:14:32	22.4	23.3	21.2	21.9
466	2017-10-24 20:29:32	22.4	23.2	20.9	21.8
467	2017-10-24 20:44:32	22.4	23.1	20.7	21.6
468	2017-10-24 20:59:32	22.1	22.9	20.5	21.5
469	2017-10-24 21:14:32	21.7	22.8	20.5	21.1
470	2017-10-24 21:29:32	21.5	22.8	20.4	20.7
471	2017-10-24 21:44:32	21.7	22.6	20.6	20.7
472	2017-10-24 21:59:32	21.5	22.6	20.3	20.9
473	2017-10-24 22:14:32	21.5	22.5	20.1	20.9
474	2017-10-24 22:29:32	21.5	22.5	20.2	20.6
475	2017-10-24 22:44:32	21.5	22.5	20.8	20.8
476	2017-10-24 22:59:32	21.7	22.4	21.1	20.9
477	2017-10-24 23:14:32	21.6	22.4	21.1	20.7
478	2017-10-24 23:29:32	21.4	22.3	20.9	20.7
479	2017-10-24 23:44:32	21.1	22.3	20.9	20.8
480	2017-10-24 23:59:32	20.9	22.3	20.6	20.8
481	2017-10-25 00:14:32	21.7	22.2	20.3	20.6
482	2017-10-25 00:29:32	21.9	22.1	20	20.2
483	2017-10-25 00:44:32	21.4	22.1	19.8	20.1
484	2017-10-25 00:59:32	21.4	21.9	19.6	20.1
485	2017-10-25 01:14:32	21.1	21.9	20	20.6
486	2017-10-25 01:29:32	21.3	21.9	20.2	20.3
487	2017-10-25 01:44:32	21.4	22	20.1	20.3
488	2017-10-25 01:59:32	21.5	21.9	20.1	20.2
489	2017-10-25 02:14:32	21.4	21.8	20.2	20.3
490	2017-10-25 02:29:32	21.5	21.8	20.2	20.2
491	2017-10-25 02:44:32	20.9	21.8	20.3	20.3
492	2017-10-25 02:59:32	20.7	21.8	20.4	20.8
493	2017-10-25 03:14:32	21	21.7	20.2	20.7
494	2017-10-25 03:29:32	20.8	21.7	19.9	20.7
495	2017-10-25 03:44:32	21.1	21.6	19.8	20.4
496	2017-10-25 03:59:32	21.4	21.5	19.5	20.4
497	2017-10-25 04:14:32	21.5	21.4	19.4	20.4

498	2017-10-25 04:29:32	21.2	21.4	19.8	20.8
499	2017-10-25 04:44:32	21.5	21.5	20.8	20.9
500	2017-10-25 04:59:32	21.5	21.6	21.3	21.1
501	2017-10-25 05:14:32	21.5	21.6	21.5	21
502	2017-10-25 05:29:32	21.5	21.7	21.5	20.9
503	2017-10-25 05:44:32	21.6	21.7	21.2	20.9
504	2017-10-25 05:59:32	21.8	21.5	21.3	20.9
505	2017-10-25 06:14:32	22.1	21.6	21.5	21.2
506	2017-10-25 06:29:32	21.9	21.6	21.6	21.2
507	2017-10-25 06:44:32	21.7	21.6	21.8	21.3
508	2017-10-25 06:59:32	22	21.6	21.8	21.3
509	2017-10-25 07:14:32	22	21.7	22	21.4
510	2017-10-25 07:29:32	22.2	21.8	22.1	21.7
511	2017-10-25 07:44:32	22.5	22	22.2	22.1
512	2017-10-25 07:59:32	23.1	22.1	22.7	22.3
513	2017-10-25 08:14:32	23.3	22.2	22.8	22.6
514	2017-10-25 08:29:32	23.8	22.5	23.6	22.8
515	2017-10-25 08:44:32	24	22.7	24.4	23.1
516	2017-10-25 08:59:32	24.8	22.9	25	23.3
517	2017-10-25 09:14:32	24.8	23.2	24.7	23.7
518	2017-10-25 09:29:32	24.1	23.3	24.7	23.5
519	2017-10-25 09:44:32	23.6	23.5	24.2	23.2
520	2017-10-25 09:59:32	22.5	22.8	22.1	22.1
521	2017-10-25 10:14:32	22.2	22.1	21.3	22
522	2017-10-25 10:29:32	22.6	22	21.5	22.1
523	2017-10-25 10:44:32	22.7	22.1	21.9	22.2
524	2017-10-25 10:59:32	22.6	22.1	21.9	22.2
525	2017-10-25 11:14:32	22.6	22.2	21.9	22.3
526	2017-10-25 11:29:32	23.3	22.3	22.2	23
527	2017-10-25 11:44:32	23.9	22.6	22.9	23.7
528	2017-10-25 11:59:32	24.4	23	23.4	24.1
529	2017-10-25 12:14:32	24.3	23.3	23.7	24.2
530	2017-10-25 12:29:32	24.6	23.5	24	24.3
531	2017-10-25 12:44:32	24.5	23.5	24.2	24.6
532	2017-10-25 12:59:32	24.5	23.6	24.5	24.6
533	2017-10-25 13:14:32	24.8	23.7	24.7	24.7
534	2017-10-25 13:29:32	25.6	23.8	25	25.4
535	2017-10-25 13:44:32	26.4	23.9	25.3	26.2
536	2017-10-25 13:59:32	26.2	24	25.8	26.2
537	2017-10-25 14:14:32	26.4	24.4	25.8	26.2
538	2017-10-25 14:29:32	25.5	24.4	25.7	25.7
539	2017-10-25 14:44:32	25	24.4	25.7	25.2

540	2017-10-25 14:59:32	25.6	24.4	25.8	25.3
541	2017-10-25 15:14:32	25.2	24.5	25.7	24.9
542	2017-10-25 15:29:32	24.7	24.7	25.6	24.7
543	2017-10-25 15:44:32	24.7	24.4	25.2	24.7
544	2017-10-25 15:59:32	25	24.3	24.9	24.9
545	2017-10-25 16:14:32	24.8	24.2	24.7	24.7
546	2017-10-25 16:29:32	24.6	24.1	24.5	24.7
547	2017-10-25 16:44:32	24.7	24.1	24.5	24.7
548	2017-10-25 16:59:32	23.4	23.6	24.2	23.6
549	2017-10-25 17:14:32	22.3	23.1	23.3	22.4
550	2017-10-25 17:29:32	20.9	22.4	22.3	21
551	2017-10-25 17:44:32	20.6	22.4	22	20.4
552	2017-10-25 17:59:32	20	22.1	21.6	19.3
553	2017-10-25 18:14:32	19.5	21.3	20.9	19.1
554	2017-10-25 18:29:32	19.6	21.2	20.7	19.2
555	2017-10-25 18:44:32	19.9	21.3	20.7	19.5
556	2017-10-25 18:59:32	20.1	21.4	20.8	19.4
557	2017-10-25 19:14:32	20.3	21.5	20.8	19.4
558	2017-10-25 19:29:32	20.2	21.5	20.8	19.4
559	2017-10-25 19:44:32	20.2	21.3	20.5	19.3
560	2017-10-25 19:59:32	20.2	21.4	20.3	19.3
561	2017-10-25 20:14:32	20.3	21.4	20.3	19.4
562	2017-10-25 20:29:32	20.3	21.4	20.2	19.3
563	2017-10-25 20:44:32	20.2	21.4	20.2	19.3
564	2017-10-25 20:59:32	20.3	21.4	20.2	19.4
565	2017-10-25 21:14:32	20.2	21.4	20.3	19.4
566	2017-10-25 21:29:32	20.2	21.4	20.3	19.3
567	2017-10-25 21:44:32	20.3	21.4	20.2	19.3
568	2017-10-25 21:59:32	20.3	21.4	20.1	19.2
569	2017-10-25 22:14:32	20.2	21.4	20.1	19.1
570	2017-10-25 22:29:32	19.9	21.4	20	19.2
571	2017-10-25 22:44:32	19.8	21.4	19.9	19.1
572	2017-10-25 22:59:32	19.9	21.2	19.9	19.1
573	2017-10-25 23:14:32	19.8	21.2	20	19.1
574	2017-10-25 23:29:32	20.1	21.2	20	19.2
575	2017-10-25 23:44:32	19.9	21.3	20	19.1
576	2017-10-25 23:59:32	19.9	21.3	20.1	19.1
577	2017-10-26 00:14:32	19.9	21.3	20.1	19
578	2017-10-26 00:29:32	19.8	21.4	20.1	19
579	2017-10-26 00:44:32	19.9	21.3	20	19
580	2017-10-26 00:59:32	19.8	21.2	19.9	19
581	2017-10-26 01:14:32	19.7	21.1	19.8	18.8

582	2017-10-26 01:29:32	19.7	21	19.8	18.6
583	2017-10-26 01:44:32	19.4	20.9	19.6	18.5
584	2017-10-26 01:59:32	19.2	20.8	19.1	18.1
585	2017-10-26 02:14:32	18.9	20.7	18.7	18
586	2017-10-26 02:29:32	18.8	20.5	18.4	17.9
587	2017-10-26 02:44:32	18.8	20.4	18	17.9
588	2017-10-26 02:59:32	18.6	20.3	17.8	17.9
589	2017-10-26 03:14:32	18.6	20.3	17.5	17.8
590	2017-10-26 03:29:32	18.5	20.3	17.4	17.5
591	2017-10-26 03:44:32	18.3	20.2	17.3	17.5
592	2017-10-26 03:59:32	18.2	20	17.1	17.6
593	2017-10-26 04:14:32	18.2	20	17.4	17.7
594	2017-10-26 04:29:32	18.2	20	17.1	17.6
595	2017-10-26 04:44:32	18	20	17.2	17.6
596	2017-10-26 04:59:32	18.2	20.1	18.6	17.5
597	2017-10-26 05:14:32	17.9	20	18.1	17.2
598	2017-10-26 05:29:32	17.7	20.1	17.9	17
599	2017-10-26 05:44:32	17.5	20.1	17.5	17
600	2017-10-26 05:59:32	17.5	20	17.3	16.9
601	2017-10-26 06:14:32	17.4	20	17	16.9
602	2017-10-26 06:29:32	17.4	19.9	16.8	17
603	2017-10-26 06:44:32	17.4	19.8	16.7	16.9
604	2017-10-26 06:59:32	17.4	19.8	16.7	16.9
605	2017-10-26 07:14:32	17.4	19.9	16.7	16.8
606	2017-10-26 07:29:32	17.8	19.9	17	16.8
607	2017-10-26 07:44:32	18.2	19.9	17.3	16.9
608	2017-10-26 07:59:32	18.7	19.9	17.7	17.2
609	2017-10-26 08:14:32	19.5	20.3	18.5	17.7
610	2017-10-26 08:29:32	20	20.6	19.5	18.5
611	2017-10-26 08:44:32	20.7	20.8	20.4	19.3
612	2017-10-26 08:59:32	22.8	20.9	21.5	20.3
613	2017-10-26 09:14:32	24.2	21.3	22.7	21.2
614	2017-10-26 09:29:32	24.8	21.5	23.4	21.9
615	2017-10-26 09:44:32	24.2	21.6	23.8	22.2
616	2017-10-26 09:59:32	24.8	21.9	25.1	22.8
617	2017-10-26 10:14:32	25.2	22.2	25.6	22.9
618	2017-10-26 10:29:32	24.5	22.4	26	23.5
619	2017-10-26 10:44:32	23.9	22.6	25.4	23.3
620	2017-10-26 10:59:32	23.8	22.4	25	23.2
621	2017-10-26 11:14:32	24.6	22.6	25.2	23.8
622	2017-10-26 11:29:32	24.2	23.2	26.8	23.6
623	2017-10-26 11:44:32	23.4	23.4	26.3	22.8

624	2017-10-26 11:59:32	20.9	22	23.9	21.3
625	2017-10-26 12:14:32	21.8	20.8	22.2	22.8
626	2017-10-26 12:29:32	23.2	21.2	23	23.5
627	2017-10-26 12:44:32	23.7	21.6	23.8	24.4
628	2017-10-26 12:59:32	24.2	22.1	23.9	24.2
629	2017-10-26 13:14:32	24.6	22.6	24.2	24.6
630	2017-10-26 13:29:32	24.8	22.9	24.5	24.9
631	2017-10-26 13:44:32	25.1	23.3	25	25.1
632	2017-10-26 13:59:32	24.9	23.4	25.5	24.6
633	2017-10-26 14:14:32	25	23.6	25.7	24.9
634	2017-10-26 14:29:32	25.4	23.7	26.2	25
635	2017-10-26 14:44:32	25.1	23.9	26.4	25.2
636	2017-10-26 14:59:32	25.8	24	26.3	25.2
637	2017-10-26 15:14:32	26.1	24	26	25.3
638	2017-10-26 15:29:32	26.1	24.1	25.7	25.4
639	2017-10-26 15:44:32	25.8	24.1	25.4	25.2
640	2017-10-26 15:59:32	25.5	24.1	25	25.1
641	2017-10-26 16:14:32	25.4	24	24.8	24.9
642	2017-10-26 16:29:32	25.2	24	24.6	24.7
643	2017-10-26 16:44:32	24.8	23.9	24.4	24.3
644	2017-10-26 16:59:32	24.4	23.8	24.1	24
645	2017-10-26 17:14:32	23.9	23.6	23.9	23.6
646	2017-10-26 17:29:32	23.6	23.5	23.6	23.1
647	2017-10-26 17:44:32	23	23.4	23.2	22.6
648	2017-10-26 17:59:32	22.8	23.3	22.7	22
649	2017-10-26 18:14:32	22.3	23.1	22.2	21.4
650	2017-10-26 18:29:32	22	23	21.8	21
651	2017-10-26 18:44:32	21.8	22.9	21.2	20.7
652	2017-10-26 18:59:32	21.6	22.8	20.7	20.3
653	2017-10-26 19:14:32	21.6	22.7	20.3	20.3
654	2017-10-26 19:29:32	21.4	22.6	19.9	20.3
655	2017-10-26 19:44:32	21.2	22.6	19.8	20.3
656	2017-10-26 19:59:32	21.3	22.7	19.5	20.5
657	2017-10-26 20:14:32	21.2	22.6	19.3	20.4
658	2017-10-26 20:29:32	21.1	22.5	19.3	20.4
659	2017-10-26 20:44:32	21	22.5	19.3	20.2
660	2017-10-26 20:59:32	20.8	22.5	19.2	19.6
661	2017-10-26 21:14:32	20.7	22.5	19.2	19.5
662	2017-10-26 21:29:32	20.6	22.4	19	19.3
663	2017-10-26 21:44:32	20.7	22.4	18.8	19.2
664	2017-10-26 21:59:32	20.5	22.2	18.7	19.3
665	2017-10-26 22:14:32	20.4	22.1	18.6	19.6

666	2017-10-26 22:29:32	20.3	21.9	18.4	19.6
667	2017-10-26 22:44:32	20.3	21.7	18.2	19.8
668	2017-10-26 22:59:32	20.5	21.8	18.1	20.1
669	2017-10-26 23:14:32	20.7	22	18.4	20.4
670	2017-10-26 23:29:32	20.9	22.1	18.7	20.5
671	2017-10-26 23:44:32	20.9	22.1	19.2	20.4
672	2017-10-26 23:59:32	20.9	22	19.2	20.2
673	2017-10-27 00:14:32	20.9	22	19.1	19.9
674	2017-10-27 00:29:32	20.6	21.8	18.9	19.8
675	2017-10-27 00:44:32	20.4	21.6	18.7	19.7
676	2017-10-27 00:59:32	20.3	21.5	18.5	19.6
677	2017-10-27 01:14:32	20	21.4	18.3	19.5
678	2017-10-27 01:29:32	20	21.3	18.2	19.4
679	2017-10-27 01:44:32	20	21.2	18.4	19.3
680	2017-10-27 01:59:32	19.9	21.1	18.3	19.1
681	2017-10-27 02:14:32	19.8	21.1	18.1	18.9
682	2017-10-27 02:29:32	19.3	20.9	18	18.5
683	2017-10-27 02:44:32	19	20.8	17.7	18.1
684	2017-10-27 02:59:32	18.7	20.6	17.5	17.9
685	2017-10-27 03:14:32	18.4	20.5	17.3	17.7
686	2017-10-27 03:29:32	18.2	20.3	17	17.7
687	2017-10-27 03:44:32	18.1	20.3	16.8	17.6
688	2017-10-27 03:59:32	18	20.2	16.6	17.6
689	2017-10-27 04:14:32	18	20	16.4	17.4
690	2017-10-27 04:29:32	18.1	20	16.1	17.5
691	2017-10-27 04:44:32	18	19.9	16.1	17.5
692	2017-10-27 04:59:32	18	19.9	16.2	17.6
693	2017-10-27 05:14:32	18	19.8	16.2	17.4
694	2017-10-27 05:29:32	17.9	19.9	16.1	17.4
695	2017-10-27 05:44:32	18	19.8	16.1	17.5
696	2017-10-27 05:59:32	18.2	19.8	16.3	17.5
697	2017-10-27 06:14:32	18.4	19.8	16.4	17.7
698	2017-10-27 06:29:32	18.5	19.8	16.3	17.9
699	2017-10-27 06:44:32	18.4	19.8	16.3	17.9
700	2017-10-27 06:59:32	18.3	19.8	16.3	17.8
701	2017-10-27 07:14:32	18.4	19.9	16.5	18
702	2017-10-27 07:29:32	18.6	20	16.7	18.5
703	2017-10-27 07:44:32	19.3	20.1	17.2	19
704	2017-10-27 07:59:32	20	20.3	18.2	19.5
705	2017-10-27 08:14:32	20.9	20.5	18.9	20.1
706	2017-10-27 08:29:32	21.6	20.7	20	20.5
707	2017-10-27 08:44:32	22.4	20.9	22	21.1

708	2017-10-27 08:59:32	23.6	21.2	23	21.5
709	2017-10-27 09:14:32	24.2	21.5	23.6	22.2
710	2017-10-27 09:29:32	24.5	21.8	24.1	22.9
711	2017-10-27 09:44:32	24.7	22.2	24.6	23.3
712	2017-10-27 09:59:32	24.5	22.3	24.9	23.5
713	2017-10-27 10:14:32	24.9	22.5	24.9	23.9
714	2017-10-27 10:29:32	24.5	22.9	25.2	24.1
715	2017-10-27 10:44:32	24.6	23	24.9	24.2
716	2017-10-27 10:59:32	25.1	23.3	25.7	25
717	2017-10-27 11:14:32	24.9	23.5	26.2	25
718	2017-10-27 11:29:32	24.5	23.7	26.2	24.4
719	2017-10-27 11:44:32	24.6	23.8	26.1	24.7
720	2017-10-27 11:59:32	24.6	23.7	25.5	24.6
721	2017-10-27 12:14:32	24.9	23.7	25.5	24.8
722	2017-10-27 12:29:32	25.1	24	25.8	25.7
723	2017-10-27 12:44:32	25.1	24.1	25.6	25.4
724	2017-10-27 12:59:32	24.5	24	25.3	24.8
725	2017-10-27 13:14:32	24.3	24	25.3	24.6
726	2017-10-27 13:29:32	24.1	23.9	25.2	24.3
727	2017-10-27 13:44:32	24.1	23.9	24.9	24.4
728	2017-10-27 13:59:32	24	23.8	24.7	24.3
729	2017-10-27 14:14:32	24	23.8	24.7	24.3
730	2017-10-27 14:29:32	24.1	23.8	24.6	24.4
731	2017-10-27 14:44:32	24.9	24.2	24.9	25.1
732	2017-10-27 14:59:32	24.3	24.5	24.7	24.6
733	2017-10-27 15:14:32	24.5	24.3	24.7	24.7
734	2017-10-27 15:29:32	24.7	24.4	24.6	24.9
735	2017-10-27 15:44:32	24.8	24.4	24.5	25
736	2017-10-27 15:59:32	24.7	24.5	24.4	25
737	2017-10-27 16:14:32	24.4	24.4	24.2	24.8
738	2017-10-27 16:29:32	24.2	24.3	24	24.7
739	2017-10-27 16:44:32	24	24.1	24	24.4
740	2017-10-27 16:59:32	23.8	24	23.8	24.1
741	2017-10-27 17:14:32	23.6	23.9	23.6	23.9
742	2017-10-27 17:29:32	23.5	23.7	23.5	23.6
743	2017-10-27 17:44:32	23	23.5	23.3	23.3
744	2017-10-27 17:59:32	22.9	23.4	23	22.6
745	2017-10-27 18:14:32	22.2	23.2	22.5	21.9
746	2017-10-27 18:29:32	21.8	23	22	21.3
747	2017-10-27 18:44:32	21.5	22.9	21.5	20.8
748	2017-10-27 18:59:32	21.1	22.8	20.8	20.3
749	2017-10-27 19:14:32	20.9	22.6	20.3	20

750	2017-10-27 19:29:32	20.6	22.4	19.8	19.7
751	2017-10-27 19:44:32	20.4	22.3	19.4	19.5
752	2017-10-27 19:59:32	20.3	22.1	19.2	19.5
753	2017-10-27 20:14:32	20.2	22.1	19	19.5
754	2017-10-27 20:29:32	20.2	22.1	18.7	19.3
755	2017-10-27 20:44:32	20	22.1	19.2	19.1
756	2017-10-27 20:59:32	19.9	22.1	18.8	18.9
757	2017-10-27 21:14:32	19.8	22.1	18.6	18.7
758	2017-10-27 21:29:32	19.7	21.9	18.6	18.6
759	2017-10-27 21:44:32	20	21.8	18.8	18.8
760	2017-10-27 21:59:32	20.3	21.8	18.9	19.5
761	2017-10-27 22:14:32	20.5	21.9	18.6	19.2
762	2017-10-27 22:29:32	20.4	22.1	18.7	19.1
763	2017-10-27 22:44:32	20.2	22.1	18.8	18.9
764	2017-10-27 22:59:32	20.1	21.9	18.7	19
765	2017-10-27 23:14:32	20	21.7	18.6	19.2
766	2017-10-27 23:29:32	19.9	21.6	18.5	19.2
767	2017-10-27 23:44:32	19.8	21.6	18.6	19
768	2017-10-27 23:59:32	19.7	21.5	18.6	18.8
769	2017-10-28 00:14:32	19.5	21.4	18.4	18.7
770	2017-10-28 00:29:32	19.5	21.3	18.2	18.9
771	2017-10-28 00:44:32	19.5	21.3	18	18.7
772	2017-10-28 00:59:32	19.4	21.1	18.1	18.6
773	2017-10-28 01:14:32	19.6	21.1	17.9	19
774	2017-10-28 01:29:32	19.8	21.1	17.8	18.9
775	2017-10-28 01:44:32	19.6	21.1	17.7	18.9
776	2017-10-28 01:59:32	19.8	21	17.8	19.2
777	2017-10-28 02:14:32	19.7	21	17.9	19.2
778	2017-10-28 02:29:32	19.7	21	17.9	19.2
779	2017-10-28 02:44:32	19.5	21	17.8	19.3
780	2017-10-28 02:59:32	19.3	20.9	17.8	19.2
781	2017-10-28 03:14:32	19.3	20.9	17.7	19.1
782	2017-10-28 03:29:32	19.2	20.8	17.6	18.9
783	2017-10-28 03:44:32	19.2	20.7	17.5	18.7
784	2017-10-28 03:59:32	19	20.7	17.4	18.6
785	2017-10-28 04:14:32	19	20.5	17.4	18.6
786	2017-10-28 04:29:32	18.9	20.5	17.3	18.6
787	2017-10-28 04:44:32	18.8	20.4	17.3	18.9
788	2017-10-28 04:59:32	18.8	20.3	17.3	19.2
789	2017-10-28 05:14:32	18.8	20.4	17.2	19.3
790	2017-10-28 05:29:32	19.1	20.4	17.1	19.2
791	2017-10-28 05:44:32	19.5	20.4	17.2	19.2

792	2017-10-28 05:59:32	19.8	20.4	17.4	18.6
793	2017-10-28 06:14:32	20	20.4	17.5	18.1
794	2017-10-28 06:29:32	19.3	20.4	17.4	17.8
795	2017-10-28 06:44:32	18.8	20.3	17.2	17.5
796	2017-10-28 06:59:32	18.5	20.1	17.1	17.6
797	2017-10-28 07:14:32	18.6	20.1	16.9	17.5
798	2017-10-28 07:29:32	18.6	20.1	16.9	17.7
799	2017-10-28 07:44:32	18.5	20	16.9	17.8
800	2017-10-28 07:59:32	18.8	20	17.3	17.8
801	2017-10-28 08:14:32	19.6	20.1	17.9	18.5
802	2017-10-28 08:29:32	20.3	20.3	18.6	19.2
803	2017-10-28 08:44:32	21.6	20.5	19.7	20.2
804	2017-10-28 08:59:32	22.9	20.8	20.6	20.9
805	2017-10-28 09:14:32	22.5	21.1	20.9	21.1
806	2017-10-28 09:29:32	22.4	21.2	21.1	21.5
807	2017-10-28 09:44:32	22.7	21.5	21.7	22
808	2017-10-28 09:59:32	22.9	21.6	22	22.2
809	2017-10-28 10:14:32	23.7	21.7	22.9	22.9
810	2017-10-28 10:29:32	23.6	22	23.3	23.3
811	2017-10-28 10:44:32	24.1	22.3	24.5	24
812	2017-10-28 10:59:32	25.1	22.5	25	24.9
813	2017-10-28 11:14:32	25.4	22.9	25.5	24.9
814	2017-10-28 11:29:32	24.1	22.9	24.9	24
815	2017-10-28 11:44:32	23.6	22.8	24.5	23.5
816	2017-10-28 11:59:32	23.4	22.9	24.4	23.4
817	2017-10-28 12:14:32	24	22.9	24.3	23.7
818	2017-10-28 12:29:32	24	22.9	24.5	23.9
819	2017-10-28 12:44:32	24.1	23	24.3	23.9
820	2017-10-28 12:59:32	23.2	22.8	23.7	23.2
821	2017-10-28 13:14:32	22.8	22.6	22.8	22.9
822	2017-10-28 13:29:32	24	22.2	22.1	23.6
823	2017-10-28 13:44:32	24.4	22.2	22.1	24
824	2017-10-28 13:59:32	24	22.3	22.1	23.9
825	2017-10-28 14:14:32	24.2	22.5	22.5	24
826	2017-10-28 14:29:32	24	22.5	22.6	23.9
827	2017-10-28 14:44:32	24.6	22.9	23.2	24
828	2017-10-28 14:59:32	24.5	23	23.5	24
829	2017-10-28 15:14:32	23.6	23.2	23.5	23.5
830	2017-10-28 15:29:32	23.5	23	23.5	23.5
831	2017-10-28 15:44:32	23.4	23	23.3	23.3
832	2017-10-28 15:59:32	23.5	23	23.3	23.4
833	2017-10-28 16:14:32	23.3	22.9	23.2	23.4

834	2017-10-28 16:29:32	23.2	22.9	23.1	23.2
835	2017-10-28 16:44:32	22.9	22.8	22.9	23
836	2017-10-28 16:59:32	22.7	22.8	22.8	22.9
837	2017-10-28 17:14:32	22.3	22.6	22.6	22.6
838	2017-10-28 17:29:32	21.7	22.4	22.4	22.3
839	2017-10-28 17:44:32	21.8	22.3	22	22.2
840	2017-10-28 17:59:32	21	22	21.6	21.8
841	2017-10-28 18:14:32	20.9	21.9	21.4	21.5
842	2017-10-28 18:29:32	20.8	21.8	21.1	21.2
843	2017-10-28 18:44:32	20.5	21.7	20.9	21.1
844	2017-10-28 18:59:32	20.7	21.6	20.9	21
845	2017-10-28 19:14:32	20.7	21.6	20.8	20.7
846	2017-10-28 19:29:32	20.5	21.5	20.5	20.4
847	2017-10-28 19:44:32	20.4	21.4	20.3	20.3
848	2017-10-28 19:59:32	20.3	21.4	20.2	20.2
849	2017-10-28 20:14:32	20	21.2	20.1	20
850	2017-10-28 20:29:32	19.9	21	19.9	19.9
851	2017-10-28 20:44:32	19.8	20.9	19.8	19.9
852	2017-10-28 20:59:32	19.9	20.9	19.6	19.8
853	2017-10-28 21:14:32	20	20.9	19.3	19.6
854	2017-10-28 21:29:32	19.7	20.9	19.2	19.3
855	2017-10-28 21:44:32	19.6	20.7	19	19.2
856	2017-10-28 21:59:32	19.4	20.6	18.9	18.9
857	2017-10-28 22:14:32	19.3	20.6	18.7	18.7
858	2017-10-28 22:29:32	19.2	20.5	18.6	18.7
859	2017-10-28 22:44:32	19.2	20.6	18.6	18.6
860	2017-10-28 22:59:32	19.2	20.5	18.5	18.6
861	2017-10-28 23:14:32	19.3	20.4	18.3	18.6
862	2017-10-28 23:29:32	19.3	20.4	18.2	18.8
863	2017-10-28 23:44:32	19.3	20.4	18	18.8
864	2017-10-28 23:59:32	19.5	20.4	18	19
865	2017-10-29 00:14:32	19.6	20.5	18.1	19.2
866	2017-10-29 00:29:32	19.7	20.5	18.6	19.2
867	2017-10-29 00:44:32	19.8	20.6	19.2	19.2
868	2017-10-29 00:59:32	19.8	20.7	19.4	19.2
869	2017-10-29 01:14:32	19.6	20.5	19.2	19.2
870	2017-10-29 01:29:32	19.7	20.3	19	19.2
871	2017-10-29 01:44:32	19.8	20.3	18.8	19.2
872	2017-10-29 01:59:32	19.6	20.3	18.7	18.9
873	2017-10-29 02:14:32	19.4	20.3	18.2	18.8
874	2017-10-29 02:29:32	19.3	20.2	18	18.5
875	2017-10-29 02:44:32	19.1	20	17.6	18.6

876	2017-10-29 02:59:32	18.9	20	17.4	18.5
877	2017-10-29 03:14:32	19.2	19.9	17.2	18.7
878	2017-10-29 03:29:32	19.2	19.7	17.3	19.1
879	2017-10-29 03:44:32	19.5	20	17.8	19
880	2017-10-29 03:59:32	19	20.1	18.3	18.7
881	2017-10-29 04:14:32	18.7	20	18.1	18.8
882	2017-10-29 04:29:32	18.8	20	17.6	19.1
883	2017-10-29 04:44:32	19.5	20	17.4	19.2
884	2017-10-29 04:59:32	19.4	20.2	17.4	19.2
885	2017-10-29 05:14:32	19.4	20.4	17.6	18.9
886	2017-10-29 05:29:32	19.2	20.6	17.5	19.1
887	2017-10-29 05:44:32	19.1	20.2	17.4	19
888	2017-10-29 05:59:32	19.6	19.8	17.1	18.6
889	2017-10-29 06:14:32	19.4	19.8	17.2	18.6
890	2017-10-29 06:29:32	19.2	19.8	17.2	18.6
891	2017-10-29 06:44:32	19.3	19.8	17.9	18.1
892	2017-10-29 06:59:32	18.9	19.8	18.2	17.9
893	2017-10-29 07:14:32	18.4	19.6	18	18
894	2017-10-29 07:29:32	18.4	19.8	18.5	17.9
895	2017-10-29 07:44:32	19.7	20	18.6	18.2
896	2017-10-29 07:59:32	20	20.2	18.8	18.2
897	2017-10-29 08:14:32	20.4	20.5	19.8	18.5
898	2017-10-29 08:29:32	20.5	20.7	20.7	19
899	2017-10-29 08:44:32	21.2	20.9	21.4	19.4
900	2017-10-29 08:59:32	22.7	20.9	22.2	20.3
901	2017-10-29 09:14:32	23.3	21.1	22.8	20.9
902	2017-10-29 09:29:32	23.8	21.3	23.5	21.5
903	2017-10-29 09:44:32	23.7	21.5	24	22.1
904	2017-10-29 09:59:32	23.8	21.8	24.7	23
905	2017-10-29 10:14:32	23.6	22.2	25.3	23.5
906	2017-10-29 10:29:32	24.9	23.1	25.9	24.5
907	2017-10-29 10:44:32	25.4	23.6	26.2	25.3
908	2017-10-29 10:59:32	25.7	24	26.5	25.8
909	2017-10-29 11:14:32	26	24.3	27.2	26.3
910	2017-10-29 11:29:32	26.3	24.4	27.8	26.6
911	2017-10-29 11:44:32	26.7	24.7	28	26.5
912	2017-10-29 11:59:32	27.3	25	27.9	26.4
913	2017-10-29 12:14:32	26.4	25.1	27.5	26.4
914	2017-10-29 12:29:32	26.4	25.5	27.9	26.4
915	2017-10-29 12:44:32	26.8	25.8	27.9	26.3
916	2017-10-29 12:59:32	26.2	25.5	28.2	26.4
917	2017-10-29 13:14:32	26.1	25.4	27.9	26.8

918	2017-10-29 13:29:32	25.7	25	26.9	26.1
919	2017-10-29 13:44:32	25.6	25.4	26.7	25.6
920	2017-10-29 13:59:32	25.8	25.5	27	25.6
921	2017-10-29 14:14:32	26.6	25.4	26.7	25.6
922	2017-10-29 14:29:32	25.8	25.6	26.9	25.2
923	2017-10-29 14:44:32	25.4	25.5	26.5	25.1
924	2017-10-29 14:59:32	25.7	25.4	26.8	25.7
925	2017-10-29 15:14:32	25.6	25.3	26.3	25.5
926	2017-10-29 15:29:32	25.4	25.4	26.2	25.3
927	2017-10-29 15:44:32	25.4	25.2	25.8	25.3
928	2017-10-29 15:59:32	24.1	24.7	24.5	24.5
929	2017-10-29 16:14:32	23.6	23.8	24	24.3
930	2017-10-29 16:29:32	24	23.8	22.9	24.4
931	2017-10-29 16:44:32	24.1	23.5	22.9	24.2
932	2017-10-29 16:59:32	23	23.4	22.9	23.2
933	2017-10-29 17:14:32	21.6	23.2	21.1	21.6
934	2017-10-29 17:29:32	21	22.1	19.8	21
935	2017-10-29 17:44:32	21.7	21.8	19.5	21.3
936	2017-10-29 17:59:32	21.9	21.6	19.4	21.5
937	2017-10-29 18:14:32	22.1	21.8	19.8	21.5
938	2017-10-29 18:29:32	22	21.9	20.1	21.4
939	2017-10-29 18:44:32	22	21.8	20.3	21.4
940	2017-10-29 18:59:32	21.9	21.8	20.2	21.3
941	2017-10-29 19:14:32	22.1	21.7	20.4	21.5
942	2017-10-29 19:29:32	22.2	21.6	20.4	21.8
943	2017-10-29 19:44:32	22.2	21.6	20.5	21.7
944	2017-10-29 19:59:32	21.8	21.6	20.9	21.5
945	2017-10-29 20:14:32	21.4	21.8	20.9	21.4
946	2017-10-29 20:29:32	21.6	21.7	20.9	21.6
947	2017-10-29 20:44:32	21.9	21.8	20.9	21.8
948	2017-10-29 20:59:32	21.8	21.6	20.7	21.7
949	2017-10-29 21:14:32	21.6	21.6	20.7	21.6
950	2017-10-29 21:29:32	21.9	21.7	20.7	21.7
951	2017-10-29 21:44:32	21.8	21.8	21.1	21.6
952	2017-10-29 21:59:32	21.4	21.8	21.3	21.3
953	2017-10-29 22:14:32	21.3	21.8	21	21.3
954	2017-10-29 22:29:32	21.4	21.8	21	21.3
955	2017-10-29 22:44:32	21.4	21.8	21	21.2
956	2017-10-29 22:59:32	21.2	21.8	21.2	21
957	2017-10-29 23:14:32	21	21.7	21	20.9
958	2017-10-29 23:29:32	21	21.5	20.8	20.9
959	2017-10-29 23:44:32	20.9	21.4	20.5	20.8

960	2017-10-29 23:59:32	20.9	21.4	20.1	20.7
961	2017-10-30 00:14:32	20.8	21.4	20.3	20.7
962	2017-10-30 00:29:32	20.9	21.3	20.4	20.8
963	2017-10-30 00:44:32	20.8	21.3	20.5	20.6
964	2017-10-30 00:59:32	20.6	21.1	20.4	20.5
965	2017-10-30 01:14:32	20.4	21.1	20.4	20.3
966	2017-10-30 01:29:32	20.3	21	20.3	20.2
967	2017-10-30 01:44:32	20.3	20.9	20.2	20.1
968	2017-10-30 01:59:32	20.2	20.8	20.2	20.1
969	2017-10-30 02:14:32	20.2	20.8	20.1	20
970	2017-10-30 02:29:32	20.2	20.7	20	20
971	2017-10-30 02:44:32	20.2	20.7	20	20
972	2017-10-30 02:59:32	20.2	20.7	19.9	20.1
973	2017-10-30 03:14:32	20.1	20.6	19.9	19.9
974	2017-10-30 03:29:32	20	20.5	19.8	19.9
975	2017-10-30 03:44:32	20	20.5	19.8	19.9
976	2017-10-30 03:59:32	20	20.5	19.8	19.9
977	2017-10-30 04:14:32	19.9	20.3	19.8	19.8
978	2017-10-30 04:29:32	19.9	20.3	19.8	19.9
979	2017-10-30 04:44:32	19.7	20.3	19.6	19.8
980	2017-10-30 04:59:32	19.6	20.3	19.6	19.7
981	2017-10-30 05:14:32	19.5	20.2	19.5	19.6
982	2017-10-30 05:29:32	19.6	20.2	19.4	19.8
983	2017-10-30 05:44:32	19.8	20.2	19.6	19.8
984	2017-10-30 05:59:32	19.8	20.3	19.7	19.8
985	2017-10-30 06:14:32	19.8	20.2	19.7	19.8
986	2017-10-30 06:29:32	19.7	20.2	19.6	19.7
987	2017-10-30 06:44:32	19.6	20.1	19.5	19.6
988	2017-10-30 06:59:32	19.4	20.1	19.4	19.5
989	2017-10-30 07:14:32	19.3	20	19.2	19.3
990	2017-10-30 07:29:32	19.3	20	19.1	19.4
991	2017-10-30 07:44:32	19.6	20	19.2	19.6
992	2017-10-30 07:59:32	20.1	20.1	19.7	19.9
993	2017-10-30 08:14:32	20.4	20.3	20.2	20.1
994	2017-10-30 08:29:32	20.8	20.3	20.3	20.3
995	2017-10-30 08:44:32	20.5	20.4	20.8	20.3
996	2017-10-30 08:59:32	21	20.5	21.1	20.8
997	2017-10-30 09:14:32	22.1	20.6	21.7	21.3
998	2017-10-30 09:29:32	21.1	20.6	20.9	20.9
999	2017-10-30 09:44:32	21.2	20.6	21.4	20.9
1000	2017-10-30 09:59:32	21.2	20.8	21.3	21.1
1001	2017-10-30 10:14:32	21.9	21.2	22.1	21.6

1002	2017-10-30 10:29:32	21.7	21.1	21.5	21.5
1003	2017-10-30 10:44:32	22	21.1	22.4	21.7
1004	2017-10-30 10:59:32	22.7	21.5	22.9	22.7
1005	2017-10-30 11:14:32	22.9	21.9	23.7	22.8
1006	2017-10-30 11:29:32	22.7	21.9	23.5	22.7
1007	2017-10-30 11:44:32	23.4	22	23.6	23.3
1008	2017-10-30 11:59:32	23.6	22.4	24.1	23.9
1009	2017-10-30 12:14:32	24	22.4	24.2	24.4
1010	2017-10-30 12:29:32	24.4	22.9	24.9	24.4
1011	2017-10-30 12:44:32	24.5	23.3	24.9	24.2
1012	2017-10-30 12:59:32	24.7	23.4	24.7	24.7
1013	2017-10-30 13:14:32	25.8	23.7	25.4	25.5
1014	2017-10-30 13:29:32	26.5	23.8	25.7	25.9
1015	2017-10-30 13:44:32	26.3	23.9	26.2	25.7
1016	2017-10-30 13:59:32	25	24	26.2	24.8
1017	2017-10-30 14:14:32	24.7	23.9	26	24.1
1018	2017-10-30 14:29:32	25.3	24	25.9	24.8
1019	2017-10-30 14:44:32	26.2	24.2	26.1	25.1
1020	2017-10-30 14:59:32	25.4	24.1	25.8	24.5
1021	2017-10-30 15:14:32	25.4	24	25.4	24.5
1022	2017-10-30 15:29:32	24.8	23.8	24.9	24
1023	2017-10-30 15:44:32	24.1	23.5	24.5	23.5
1024	2017-10-30 15:59:32	24	23.5	24.1	23.3
1025	2017-10-30 16:14:32	23.9	23.4	23.8	23.2
1026	2017-10-30 16:29:32	23.3	23.3	23.5	22.9
1027	2017-10-30 16:44:32	23.3	23.1	23.2	22.8
1028	2017-10-30 16:59:32	22.6	22.9	22.9	22.3
1029	2017-10-30 17:14:32	22.4	22.8	22.7	22.3
1030	2017-10-30 17:29:32	22.2	22.7	22.4	22
1031	2017-10-30 17:44:32	21.9	22.5	22.2	21.6
1032	2017-10-30 17:59:32	21.8	22.4	22	21.4
1033	2017-10-30 18:14:32	21.6	22.3	21.8	21.4
1034	2017-10-30 18:29:32	21.5	22.2	21.7	21.3
1035	2017-10-30 18:44:32	21.5	22.2	21.6	21.2
1036	2017-10-30 18:59:32	21.6	22.1	21.5	21.4
1037	2017-10-30 19:14:32	21.5	22.1	21.5	21.2
1038	2017-10-30 19:29:32	21.5	22.1	21.4	21.2
1039	2017-10-30 19:44:32	21.5	22	21.4	21.3
1040	2017-10-30 19:59:32	21.5	22	21.5	21.3
1041	2017-10-30 20:14:32	21.5	22	21.5	21.1
1042	2017-10-30 20:29:32	21.4	21.9	21.5	21.1
1043	2017-10-30 20:44:32	21.5	21.9	21.4	21.3

1044	2017-10-30 20:59:32	20.9	21.8	21.4	20.8
1045	2017-10-30 21:14:32	20.8	21.5	21.1	20.5
1046	2017-10-30 21:29:32	20.7	21.5	20.9	20.4
1047	2017-10-30 21:44:32	20.7	21.5	20.9	20.4
1048	2017-10-30 21:59:32	20.8	21.5	20.9	20.6
1049	2017-10-30 22:14:32	20.9	21.5	20.9	20.6
1050	2017-10-30 22:29:32	20.9	21.5	20.9	20.9
1051	2017-10-30 22:44:32	20.9	21.5	20.9	20.8
1052	2017-10-30 22:59:32	20.8	21.5	20.8	20.6
1053	2017-10-30 23:14:32	20.9	21.5	20.7	20.7
1054	2017-10-30 23:29:32	20.9	21.4	20.8	20.7
1055	2017-10-30 23:44:32	20.8	21.4	20.7	20.5
1056	2017-10-30 23:59:32	20.5	21.3	20.6	20.4
1057	2017-10-31 00:14:32	20.6	21.3	20.4	20.6
1058	2017-10-31 00:29:32	20.7	21.3	20.6	20.6
1059	2017-10-31 00:44:32	20.8	21.3	20.6	20.8
1060	2017-10-31 00:59:32	20.9	21.4	20.7	20.9
1061	2017-10-31 01:14:32	20.9	21.3	20.9	20.8
1062	2017-10-31 01:29:32	20.9	21.3	20.8	20.7
1063	2017-10-31 01:44:32	20.6	21.2	20.4	20.3
1064	2017-10-31 01:59:32	20.4	21	20.3	20.3
1065	2017-10-31 02:14:32	20.1	20.9	20.3	19.9
1066	2017-10-31 02:29:32	19.8	20.8	20	19.6
1067	2017-10-31 02:44:32	19.8	20.5	19.4	19.3
1068	2017-10-31 02:59:32	19.9	20.5	19.5	19.5
1069	2017-10-31 03:14:32	19.6	20.5	19.5	19.3
1070	2017-10-31 03:29:32	19.5	20.3	19.5	19.2
1071	2017-10-31 03:44:32	19.6	20.4	19.7	19.3
1072	2017-10-31 03:59:32	19.7	20.5	19.8	19.4
1073	2017-10-31 04:14:32	19.7	20.4	19.8	19.3
1074	2017-10-31 04:29:32	19.7	20.1	19.6	19.2
1075	2017-10-31 04:44:32	19.7	20.1	19.6	19.3
1076	2017-10-31 04:59:32	19.6	20.1	19.3	19.1
1077	2017-10-31 05:14:32	19.3	20.1	19.2	18.6
1078	2017-10-31 05:29:32	19	20	19	18.5
1079	2017-10-31 05:44:32	18.9	19.9	18.8	18.5
1080	2017-10-31 05:59:32	19	19.8	19	18.6
1081	2017-10-31 06:14:32	19.1	19.8	19.1	18.6
1082	2017-10-31 06:29:32	19.2	19.9	18.9	18.7
1083	2017-10-31 06:44:32	19.1	19.8	18.9	18.6
1084	2017-10-31 06:59:32	18.9	19.8	18.7	18.6
1085	2017-10-31 07:14:32	18.9	19.8	18.5	18.6

1086	2017-10-31 07:29:32	19	19.8	18.4	18.7
1087	2017-10-31 07:44:32	19.2	19.8	18.9	18.8
1088	2017-10-31 07:59:32	19.4	19.8	19.2	18.9
1089	2017-10-31 08:14:32	19.9	19.9	19.8	19.2
1090	2017-10-31 08:29:32	20.3	20.1	20.3	19.6
1091	2017-10-31 08:44:32	20.8	20.3	21	19.9
1092	2017-10-31 08:59:32	21.6	20.4	21.8	20.3
1093	2017-10-31 09:14:32	22.5	20.5	22.5	20.7
1094	2017-10-31 09:29:32	23.2	20.7	23.3	21.3
1095	2017-10-31 09:44:32	23.6	21	23.9	21.6
1096	2017-10-31 09:59:32	24	21.3	24.5	22.1
1097	2017-10-31 10:14:32	24	21.5	24.9	22.5
1098	2017-10-31 10:29:32	24.5	21.7	25.2	23.1
1099	2017-10-31 10:44:32	24.7	21.8	25.4	24
1100	2017-10-31 10:59:32	24.9	22	25.8	24.5
1101	2017-10-31 11:14:32	25.2	22.2	26	25
1102	2017-10-31 11:29:32	25.4	22.4	26.7	25
1103	2017-10-31 11:44:32	25.3	22.7	26.5	24
1104	2017-10-31 11:59:32	24.7	22.9	26.3	24.7
1105	2017-10-31 12:14:32	24.4	23.1	26.2	25.4
1106	2017-10-31 12:29:32	25.3	23.4	26.2	25.7
1107	2017-10-31 12:44:32	26.1	23.6	26.5	26.3
1108	2017-10-31 12:59:32	26.4	23.8	26.5	26.4
1109	2017-10-31 13:14:32	26.1	23.6	25.8	25
1110	2017-10-31 13:29:32	24.8	23.3	25.2	24.4
1111	2017-10-31 13:44:32	24	23.1	24.7	23.8
1112	2017-10-31 13:59:32	23.6	23	24.3	23.5
1113	2017-10-31 14:14:32	23.8	23.1	24.1	23.5
1114	2017-10-31 14:29:32	23.3	22.9	23.8	22.9
1115	2017-10-31 14:44:32	22.9	22.5	23.5	22.7
1116	2017-10-31 14:59:32	22.7	22.4	23.1	22.6
1117	2017-10-31 15:14:32	22.6	22.4	23	22.5
1118	2017-10-31 15:29:32	22.6	22.2	22.8	22.5
1119	2017-10-31 15:44:32	22.6	22.2	22.7	22.4
1120	2017-10-31 15:59:32	22.5	22.2	22.6	22.4
1121	2017-10-31 16:14:32	22.4	22.2	22.5	22.2
1122	2017-10-31 16:29:32	22.2	22.1	22.4	22.2
1123	2017-10-31 16:44:32	22.2	22.1	22.4	22.2
1124	2017-10-31 16:59:32	22.2	22.2	22.4	22.1
1125	2017-10-31 17:14:32	22.1	22.3	22.4	22
1126	2017-10-31 17:29:32	21.8	22.2	22.3	21.6
1127	2017-10-31 17:44:32	21.5	22.1	22	21.5

1128	2017-10-31 17:59:32	21.4	22	21.8	21.3
1129	2017-10-31 18:14:32	21.3	21.9	21.5	21.1
1130	2017-10-31 18:29:32	20.3	21.8	21.4	20.9
1131	2017-10-31 18:44:32	20	21.7	21.3	20.8
1132	2017-10-31 18:59:32	20.2	21.6	21.2	20.6
1133	2017-10-31 19:14:32	20.3	21.6	21.1	20.8
1134	2017-10-31 19:29:32	20.3	21.6	21.1	20.8
1135	2017-10-31 19:44:32	20.3	21.5	21	20.7
1136	2017-10-31 19:59:32	20.2	21.5	21	20.6
1137	2017-10-31 20:14:32	20.2	21.4	20.9	20.6
1138	2017-10-31 20:29:32	20.1	21.3	20.8	20.4
1139	2017-10-31 20:44:32	20	21.2	20.7	20.4
1140	2017-10-31 20:59:32	20	21.1	20.6	20.3
1141	2017-10-31 21:14:32	19.9	21.1	20.6	20.2
1142	2017-10-31 21:29:32	19.8	21	20.4	20.1
1143	2017-10-31 21:44:32	19.9	21	20.4	20.1
1144	2017-10-31 21:59:32	19.8	20.9	20.3	20
1145	2017-10-31 22:14:32	19.7	20.9	20.2	19.9
1146	2017-10-31 22:29:32	19.6	20.8	19.9	19.9
1147	2017-10-31 22:44:32	19.5	20.8	19.8	19.8
1148	2017-10-31 22:59:32	19.5	20.8	19.8	19.7
1149	2017-10-31 23:14:32	19.5	20.7	19.8	19.5
1150	2017-10-31 23:29:32	19.4	20.6	19.8	19.3
1151	2017-10-31 23:44:32	19.3	20.6	19.8	19.2
1152	2017-10-31 23:59:32	19.2	20.5	19.8	19.1
1153	2017-11-01 00:14:32	19.2	20.5	19.8	19.2
1154	2017-11-01 00:29:32	19.3	20.5	19.8	19.2
1155	2017-11-01 00:44:32	19.3	20.5	19.8	19.1
1156	2017-11-01 00:59:32	19.3	20.4	19.8	19.2
1157	2017-11-01 01:14:32	19.3	20.4	19.8	19.3
1158	2017-11-01 01:29:32	19.3	20.4	19.9	19.4
1159	2017-11-01 01:44:32	19.3	20.4	19.9	19.4
1160	2017-11-01 01:59:32	19.3	20.4	19.8	19.3
1161	2017-11-01 02:14:32	19.2	20.3	19.6	19.2
1162	2017-11-01 02:29:32	19	20.3	19.4	18.9
1163	2017-11-01 02:44:32	18.9	20.2	19.1	18.8
1164	2017-11-01 02:59:32	18.7	20.1	18.9	18.6
1165	2017-11-01 03:14:32	18.6	20.1	18.6	18.4
1166	2017-11-01 03:29:32	18.6	20	18	18.3
1167	2017-11-01 03:44:32	18.4	19.9	17.6	18.2
1168	2017-11-01 03:59:32	18.5	19.8	17.4	18.8
1169	2017-11-01 04:14:32	18.6	19.8	17.2	18.9

1170	2017-11-01 04:29:32	18.4	19.8	17	18.6
1171	2017-11-01 04:44:32	18	19.6	16.8	18
1172	2017-11-01 04:59:32	17.7	19.4	16.6	17.7
1173	2017-11-01 05:14:32	17.4	19.3	16.4	17.4
1174	2017-11-01 05:29:32	17.3	19.2	16.2	17.1
1175	2017-11-01 05:44:32	17.2	19.1	16.1	16.9
1176	2017-11-01 05:59:32	17.2	19	15.9	17.2
1177	2017-11-01 06:14:32	17.2	19	15.8	17.1
1178	2017-11-01 06:29:32	17.1	18.8	15.7	16.9
1179	2017-11-01 06:44:32	16.9	18.9	16	16.7
1180	2017-11-01 06:59:32	17.1	19.3	17.7	16.9
1181	2017-11-01 07:14:32	18.5	19.6	17.9	17.3
1182	2017-11-01 07:29:32	19.1	19.8	18.4	17.7
1183	2017-11-01 07:44:32	19.8	19.9	18.9	18.1
1184	2017-11-01 07:59:32	20	19.9	19.5	18.6
1185	2017-11-01 08:14:32	20.2	20	20	19.2
1186	2017-11-01 08:29:32	20.3	20.1	20.6	19.6
1187	2017-11-01 08:44:32	20.4	20.1	21	19.8
1188	2017-11-01 08:59:32	20.8	20.1	21.5	19.9
1189	2017-11-01 09:14:32	21.5	20.1	21.8	18.1
1190	2017-11-01 09:29:32	21.6	20.3	22.3	18.5
1191	2017-11-01 09:44:32	21.7	20.3	22.8	19
1192	2017-11-01 09:59:32	22	20.5	22.9	19.5
1193	2017-11-01 10:14:32	21.8	20.7	22.9	20.1
1194	2017-11-01 10:29:32	22	20.8	23.4	20.8
1195	2017-11-01 10:44:32	21.7	21	23.4	20.9
1196	2017-11-01 10:59:32	22.5	21.3	23.5	22.2
1197	2017-11-01 11:14:32	22.3	21.5	23.8	22
1198	2017-11-01 11:29:32	22	21.3	23	21.7
1199	2017-11-01 11:44:32	22.5	21.4	24	22.3
1200	2017-11-01 11:59:32	22.4	21.5	23.8	22.5
1201	2017-11-01 12:14:32	22.6	21.7	23.7	22.3
1202	2017-11-01 12:29:32	22.8	21.9	23.5	22.6
1203	2017-11-01 12:44:32	22.6	22.1	23.5	22.7
1204	2017-11-01 12:59:32	22.7	22.2	23.6	22.9
1205	2017-11-01 13:14:32	22.9	22.4	23.3	22.9
1206	2017-11-01 13:29:32	22.2	22.5	23	22
1207	2017-11-01 13:44:32	22.3	22.2	22.7	22
1208	2017-11-01 13:59:32	22.3	22.2	22.5	21.7
1209	2017-11-01 14:14:32	22.4	22.2	22.5	22.4
1210	2017-11-01 14:29:32	22.8	22.3	22.8	22.7
1211	2017-11-01 14:44:32	22.7	22.5	23	22.7

1212	2017-11-01 14:59:32	22.9	22.4	22.6	22.9
1213	2017-11-01 15:14:32	22.9	22.4	22.5	22.9
1214	2017-11-01 15:29:32	22.9	22.5	22.5	22.9
1215	2017-11-01 15:44:32	22.7	22.5	22.4	22.7
1216	2017-11-01 15:59:32	22.9	22.5	22.4	22.9
1217	2017-11-01 16:14:32	23.2	22.3	22.3	22.3
1218	2017-11-01 16:29:32	22.5	22.3	22.3	21.9
1219	2017-11-01 16:44:32	22	22.2	22.2	21.8
1220	2017-11-01 16:59:32	21.8	22	22	21.6
1221	2017-11-01 17:14:32	21.7	21.8	21.9	21.5
1222	2017-11-01 17:29:32	21.4	21.7	21.7	21.1
1223	2017-11-01 17:44:32	21	21.5	21.5	20.7
1224	2017-11-01 17:59:32	20.6	21.4	21	20.2
1225	2017-11-01 18:14:32	20.3	21.1	20.8	19.8
1226	2017-11-01 18:29:32	20.1	21	20.5	19.5
1227	2017-11-01 18:44:32	20	20.9	20.3	19.4
1228	2017-11-01 18:59:32	19.9	20.9	20.3	19.3
1229	2017-11-01 19:14:32	19.8	20.8	20	19.2
1230	2017-11-01 19:29:32	19.8	20.7	19.8	19.1
1231	2017-11-01 19:44:32	19.7	20.6	19.7	19
1232	2017-11-01 19:59:32	19.5	20.5	19.7	18.8
1233	2017-11-01 20:14:32	19.4	20.4	19.6	18.7
1234	2017-11-01 20:29:32	19.4	20.4	19.4	18.7
1235	2017-11-01 20:44:32	19.4	20.4	19.3	18.6
1236	2017-11-01 20:59:32	19.3	20.3	18.8	18.6
1237	2017-11-01 21:14:32	19.2	20.3	18.6	18.4
1238	2017-11-01 21:29:32	19.2	20.3	18.2	18.4
1239	2017-11-01 21:44:32	19.2	20.2	18	18.4
1240	2017-11-01 21:59:32	19.2	20.2	17.9	18.4
1241	2017-11-01 22:14:32	19.2	20.1	17.8	18.4
1242	2017-11-01 22:29:32	19.2	20.1	18.1	18.4
1243	2017-11-01 22:44:32	19.2	20.1	18.3	18.4
1244	2017-11-01 22:59:32	20.1	20.2	18.5	18.5
1245	2017-11-01 23:14:32	20.1	20.4	19.2	19
1246	2017-11-01 23:29:32	20.1	20.4	19.4	19.2
1247	2017-11-01 23:44:32	20.1	20.3	19.6	19.3
1248	2017-11-01 23:59:32	20.1	20.3	19.7	19.4
1249	2017-11-02 00:14:32	20	20.3	19.7	19.3
1250	2017-11-02 00:29:32	19.9	20.3	19.6	19.3
1251	2017-11-02 00:44:32	19.9	20.3	19.6	19.2
1252	2017-11-02 00:59:32	19.8	20.2	19.5	19.1
1253	2017-11-02 01:14:32	19.8	20.1	19.2	19.1

1254	2017-11-02 01:29:32	19.8	20.1	19.1	18.8
1255	2017-11-02 01:44:32	19.7	20	19	18.6
1256	2017-11-02 01:59:32	19.6	20	18.6	17.8
1257	2017-11-02 02:14:32	19.6	19.9	18.1	17.2
1258	2017-11-02 02:29:32	19.4	19.9	17.4	16.8
1259	2017-11-02 02:44:32	19.2	19.8	17.2	16.7
1260	2017-11-02 02:59:32	18.9	19.8	16.7	16.6
1261	2017-11-02 03:14:32	18.4	19.8	16.4	16.4
1262	2017-11-02 03:29:32	18	19.8	16.2	16.2
1263	2017-11-02 03:44:32	17.6	19.7	16.1	16
1264	2017-11-02 03:59:32	17.4	19.7	15.9	16
1265	2017-11-02 04:14:32	17.4	19.7	15.8	16
1266	2017-11-02 04:29:32	17	19.5	15.6	16
1267	2017-11-02 04:44:32	17	19.4	15.5	15.8
1268	2017-11-02 04:59:32	17.5	19.5	15.4	15.7
1269	2017-11-02 05:14:32	17.4	19.5	15.3	15.8
1270	2017-11-02 05:29:32	17	19.5	15.2	15.8
1271	2017-11-02 05:44:32	16.8	19.4	15.6	15.8
1272	2017-11-02 05:59:32	16.8	19.3	15.7	15.8
1273	2017-11-02 06:14:32	16.8	19	15.6	15.8
1274	2017-11-02 06:29:32	16.8	19.1	15.9	16
1275	2017-11-02 06:44:32	17.1	19.2	16.4	16.2
1276	2017-11-02 06:59:32	17.8	19.2	16.6	16.6
1277	2017-11-02 07:14:32	17.9	19.6	17.1	16.8
1278	2017-11-02 07:29:32	18.4	19.8	17.8	16.9
1279	2017-11-02 07:44:32	19.2	19.8	18.6	17.1
1280	2017-11-02 07:59:32	19.7	19.9	19.2	17.4
1281	2017-11-02 08:14:32	19.8	20.1	19.2	18.3
1282	2017-11-02 08:29:32	19.9	20.1	19.6	19
1283	2017-11-02 08:44:32	20.1	20.1	19.8	19.4
1284	2017-11-02 08:59:32	20.1	20.2	20	19.6
1285	2017-11-02 09:14:32	20	20.2	20.2	19.7
1286	2017-11-02 09:29:32	20.3	20.3	20.2	19.8
1287	2017-11-02 09:44:32	20.3	20.3	20.2	20
1288	2017-11-02 09:59:32	20.3	20.3	20.4	20
1289	2017-11-02 10:14:32	20.3	20.4	20.6	20.2
1290	2017-11-02 10:29:32	20.5	20.5	20.8	20.3
1291	2017-11-02 10:44:32	20.7	20.6	21.1	20.7
1292	2017-11-02 10:59:32	21.1	20.9	21.5	21
1293	2017-11-02 11:14:32	20.7	20.9	21.3	20.9
1294	2017-11-02 11:29:32	20.8	20.7	21.2	21.1
1295	2017-11-02 11:44:32	20.9	20.8	21.5	21.3

1296	2017-11-02 11:59:32	21.3	21	21.9	21.5
1297	2017-11-02 12:14:32	21.5	21.2	21.8	21.9
1298	2017-11-02 12:29:32	21.5	21.2	21.8	21.6
1299	2017-11-02 12:44:32	21.8	21.3	21.6	22.2
1300	2017-11-02 12:59:32	22	21.1	21.6	22
1301	2017-11-02 13:14:32	21.6	21.3	21.7	21.9
1302	2017-11-02 13:29:32	21.7	21.4	22	21.9
1303	2017-11-02 13:44:32	21.5	21.5	21.8	21.2
1304	2017-11-02 13:59:32	22.2	21.6	22	21.2
1305	2017-11-02 14:14:32	21.8	21.8	22	21.5
1306	2017-11-02 14:29:32	21.2	21.8	22.1	21.3
1307	2017-11-02 14:44:32	21.8	21.9	21.9	21.4
1308	2017-11-02 14:59:32	21.8	21.9	21.8	21.3
1309	2017-11-02 15:14:32	21.5	22	21.6	21.4
1310	2017-11-02 15:29:32	22.1	21.9	21.5	21.8
1311	2017-11-02 15:44:32	21.9	21.9	21.4	22
1312	2017-11-02 15:59:32	21.6	21.8	21.4	21.8
1313	2017-11-02 16:14:32	21.6	21.8	21.3	21.7
1314	2017-11-02 16:29:32	21.5	21.7	21.3	21.6
1315	2017-11-02 16:44:32	21.3	21.6	21.2	21.4
1316	2017-11-02 16:59:32	20.9	21.5	21.1	21
1317	2017-11-02 17:14:32	20.7	21.4	21	20.8
1318	2017-11-02 17:29:32	20.6	21.2	20.9	20.4
1319	2017-11-02 17:44:32	20.4	21.1	20.6	20
1320	2017-11-02 17:59:32	20.3	21	20.4	19.5
1321	2017-11-02 18:14:32	19.9	20.9	20	19.2
1322	2017-11-02 18:29:32	19.7	20.8	19.7	19
1323	2017-11-02 18:44:32	19.6	20.5	19.4	18.9
1324	2017-11-02 18:59:32	19.5	20.5	19.2	18.7
1325	2017-11-02 19:14:32	19.3	20.4	19.2	18.6
1326	2017-11-02 19:29:32	19.2	20.3	18.9	18.5
1327	2017-11-02 19:44:32	19.1	20.3	18.7	18.5
1328	2017-11-02 19:59:32	19	20.3	18.4	18.3
1329	2017-11-02 20:14:32	19	20.3	18.2	18.1
1330	2017-11-02 20:29:32	18.7	20.1	18	18
1331	2017-11-02 20:44:32	18.6	20	17.7	17.8
1332	2017-11-02 20:59:32	18.5	19.9	17.7	17.7
1333	2017-11-02 21:14:32	18.4	19.8	17.5	17.5
1334	2017-11-02 21:29:32	18.3	19.8	17.4	17.4
1335	2017-11-02 21:44:32	18.2	19.8	17.3	17.4
1336	2017-11-02 21:59:32	18.3	19.7	17.3	17.4
1337	2017-11-02 22:14:32	18.3	19.7	17.3	17.3

1338	2017-11-02 22:29:32	18.4	19.7	17.3	17.4
1339	2017-11-02 22:44:32	18.5	19.7	17.3	17.4
1340	2017-11-02 22:59:32	18.6	19.7	17.4	17.5
1341	2017-11-02 23:14:32	18.6	19.7	17.4	17.5
1342	2017-11-02 23:29:32	18.6	19.6	17.3	17.5
1343	2017-11-02 23:44:32	18.5	19.6	17.3	17.4
1344	2017-11-02 23:59:32	18.5	19.5	17.1	17.3
1345	2017-11-03 00:14:32	18.4	19.5	16.8	17.2
1346	2017-11-03 00:29:32	18.3	19.3	16.7	17.3
1347	2017-11-03 00:44:32	18.3	19.2	16.9	17.3
1348	2017-11-03 00:59:32	18.5	19.2	16.7	17.3
1349	2017-11-03 01:14:32	18.4	19.2	16.6	17.3
1350	2017-11-03 01:29:32	18.5	19.2	16.5	17.3
1351	2017-11-03 01:44:32	18.6	19.2	16.5	17.4
1352	2017-11-03 01:59:32	18.7	19.2	16.5	17.4
1353	2017-11-03 02:14:32	18.8	19.2	16.6	17.5
1354	2017-11-03 02:29:32	18.8	19.2	16.7	17.7
1355	2017-11-03 02:44:32	18.9	19.3	16.7	17.9
1356	2017-11-03 02:59:32	18.9	19.4	17.1	17.9
1357	2017-11-03 03:14:32	19.2	19.6	17.9	18.2
1358	2017-11-03 03:29:32	19.2	19.6	17.8	18.2
1359	2017-11-03 03:44:32	19.2	19.5	17.9	18.3
1360	2017-11-03 03:59:32	19.1	19.4	17.9	18.3
1361	2017-11-03 04:14:32	19	19.4	17.7	18.3
1362	2017-11-03 04:29:32	18.8	19.3	17.5	18.3
1363	2017-11-03 04:44:32	18.9	19.3	17.4	18.2
1364	2017-11-03 04:59:32	18.9	19.3	17.3	18.2
1365	2017-11-03 05:14:32	18.9	19.3	17.3	18.3
1366	2017-11-03 05:29:32	18.7	19.2	17.2	18.1
1367	2017-11-03 05:44:32	18.6	19.2	17	18
1368	2017-11-03 05:59:32	18.4	19.1	17	17.9
1369	2017-11-03 06:14:32	18.5	19.1	17.2	17.9
1370	2017-11-03 06:29:32	18.5	19.1	17.1	17.7
1371	2017-11-03 06:44:32	18.3	19	16.9	17.6
1372	2017-11-03 06:59:32	18.4	18.9	16.6	17.5
1373	2017-11-03 07:14:32	18.3	18.8	16.4	17.6
1374	2017-11-03 07:29:32	18.3	18.7	16.3	17.7
1375	2017-11-03 07:44:32	18.5	18.7	16.2	17.8
1376	2017-11-03 07:59:32	18.8	18.8	16.4	18
1377	2017-11-03 08:14:32	19.1	19	16.7	18.3
1378	2017-11-03 08:29:32	19.8	19.2	17.8	19.2
1379	2017-11-03 08:44:32	20.5	19.6	18.7	20

1380	2017-11-03 08:59:32	20.6	19.9	20.5	20.3
1381	2017-11-03 09:14:32	16.9	20.2	21.5	19.2
1382	2017-11-03 09:29:32	16.5	18.9	21	17.4
1383	2017-11-03 09:44:32	16.2	18.2	19.9	17
1384	2017-11-03 09:59:32	16.7	17.8	18.4	17.4
1385	2017-11-03 10:14:32	17	17.7	17.4	18
1386	2017-11-03 10:29:32	17	17.4	15.6	18.4
1387	2017-11-03 10:44:32	15.8	16.3	15	17.6
1388	2017-11-03 10:59:32	15.2	15.4	13.3	16.6
1389	2017-11-03 11:14:32	14.7	15.4	14.6	16.1
1390	2017-11-03 11:29:32	15.2	15.9	15.1	16.1
1391	2017-11-03 11:44:32	15.9	16.2	15.5	16.5
1392	2017-11-03 11:59:32	16.4	16.4	15.9	16.7
1393	2017-11-03 12:14:32	16.7	16.6	16.1	17.3
1394	2017-11-03 12:29:32	17.1	16.7	16.5	17.3
1395	2017-11-03 12:44:32	17.5	16.9	16.9	17.9
1396	2017-11-03 12:59:32	18.6	17.2	17.2	19.6
1397	2017-11-03 13:14:32	19.2	17.4	17.5	20.3
1398	2017-11-03 13:29:32	19.4	17.6	17.6	20.3
1399	2017-11-03 13:44:32	19.7	17.6	17.7	20.3
1400	2017-11-03 13:59:32	20.1	18	18.1	20.5
1401	2017-11-03 14:14:32	20.6	18.1	18.1	20.9
1402	2017-11-03 14:29:32	20.8	18.5	18.6	21.2
1403	2017-11-03 14:44:32	20.7	18.6	19	21.2
1404	2017-11-03 14:59:32	20.5	18.7	19	21.1
1405	2017-11-03 15:14:32	20.2	18.7	19	20.6
1406	2017-11-03 15:29:32	20	18.6	19.1	20.3
1407	2017-11-03 15:44:32	19.9	18.5	19.2	20.3
1408	2017-11-03 15:59:32	19.9	18.5	19.5	20.4
1409	2017-11-03 16:14:32	19.8	18.5	19.7	20.3
1410	2017-11-03 16:29:32	19.7	18.6	19.7	20.2
1411	2017-11-03 16:44:32	19.4	18.5	19.6	19.9
1412	2017-11-03 16:59:32	19.3	18.4	19.2	19.8
1413	2017-11-03 17:14:32	19.2	18.4	18.9	19.5
1414	2017-11-03 17:29:32	18.7	18.3	18.6	19.2
1415	2017-11-03 17:44:32	18.6	18.2	18.1	18.8
1416	2017-11-03 17:59:32	18.3	18.1	17.9	18.5
1417	2017-11-03 18:14:32	18.1	18	17.6	18.1
1418	2017-11-03 18:29:32	17.9	18	17.3	17.9
1419	2017-11-03 18:44:32	17.7	17.9	17	17.7
1420	2017-11-03 18:59:32	17.7	17.9	16.9	17.5
1421	2017-11-03 19:14:32	17.6	17.9	16.7	17.5

1422	2017-11-03 19:29:32	17.7	17.9	16.5	17.6
1423	2017-11-03 19:44:32	17.8	17.8	16.6	17.6
1424	2017-11-03 19:59:32	17.8	17.8	16.6	17.5
1425	2017-11-03 20:14:32	17.7	17.9	16.7	17.4
1426	2017-11-03 20:29:32	17.6	17.9	16.7	17.3
1427	2017-11-03 20:44:32	17.4	17.9	16.5	17.2
1428	2017-11-03 20:59:32	17.4	17.9	16.3	17
1429	2017-11-03 21:14:32	17.4	17.9	16.1	16.9
1430	2017-11-03 21:29:32	17.3	17.8	16	16.8
1431	2017-11-03 21:44:32	17.1	17.7	15.8	16.7
1432	2017-11-03 21:59:32	16.9	17.6	15.6	16.5
1433	2017-11-03 22:14:32	16.8	17.5	15.4	16.5
1434	2017-11-03 22:29:32	17	17.5	15.3	16.4
1435	2017-11-03 22:44:32	16.7	17.4	15.1	16.3
1436	2017-11-03 22:59:32	16.5	17.4	15	16.2
1437	2017-11-03 23:14:32	16.8	17.4	14.9	16.2
1438	2017-11-03 23:29:32	16.7	17.3	14.8	16.2
1439	2017-11-03 23:44:32	16.8	17.3	14.7	16.2
1440	2017-11-03 23:59:32	16.9	17.3	14.8	16.2
1441	2017-11-04 00:14:32	17	17.3	14.7	16.2
1442	2017-11-04 00:29:32	17.1	17.3	14.7	16.1
1443	2017-11-04 00:44:32	16.8	17.3	14.7	16
1444	2017-11-04 00:59:32	16.7	17.3	14.6	15.9
1445	2017-11-04 01:14:32	16.4	17.3	14.5	15.8
1446	2017-11-04 01:29:32	16.4	17.2	14.4	15.8
1447	2017-11-04 01:44:32	16.3	17.2	14.4	15.8
1448	2017-11-04 01:59:32	16.4	17.2	14.4	15.8
1449	2017-11-04 02:14:32	16.2	17.2	14.4	15.7
1450	2017-11-04 02:29:32	16.1	17.2	14.5	15.7
1451	2017-11-04 02:44:32	16	17.1	14.5	15.7
1452	2017-11-04 02:59:32	15.9	17.1	14.5	15.7
1453	2017-11-04 03:14:32	15.9	17.1	14.5	15.7
1454	2017-11-04 03:29:32	16	17.1	14.5	15.5
1455	2017-11-04 03:44:32	16	17	14.5	15.5
1456	2017-11-04 03:59:32	16	17	14.4	15.7
1457	2017-11-04 04:14:32	15.9	17	14.3	15.8
1458	2017-11-04 04:29:32	15.8	17	14.3	15.9
1459	2017-11-04 04:44:32	16	17	14.3	15.8
1460	2017-11-04 04:59:32	15.9	16.9	14.1	15.9
1461	2017-11-04 05:14:32	15.6	16.9	14.1	15.9
1462	2017-11-04 05:29:32	15.4	16.9	14.1	15.7
1463	2017-11-04 05:44:32	15.4	16.9	14	15.6

1464	2017-11-04 05:59:32	15.7	16.9	14	15.5
1465	2017-11-04 06:14:32	16.2	16.8	14	15.4
1466	2017-11-04 06:29:32	15.9	16.7	13.9	15.2
1467	2017-11-04 06:44:32	15.7	16.7	13.8	15.1
1468	2017-11-04 06:59:32	15.5	16.7	13.7	15
1469	2017-11-04 07:14:32	15.4	16.6	13.7	15
1470	2017-11-04 07:29:32	15.6	16.6	13.9	15
1471	2017-11-04 07:44:32	16	16.6	14	15.2
1472	2017-11-04 07:59:32	16.3	16.7	14.3	15.7
1473	2017-11-04 08:14:32	17	16.8	15.1	16.5
1474	2017-11-04 08:29:32	17.1	17.1	15.7	17.1
1475	2017-11-04 08:44:32	17.4	17.2	16.1	17.3
1476	2017-11-04 08:59:32	18.4	17.5	17.2	18
1477	2017-11-04 09:14:32	18.1	17.7	17.4	17.8
1478	2017-11-04 09:29:32	19.8	17.9	18.6	18.5
1479	2017-11-04 09:44:32	20.9	18.3	19.8	19.3
1480	2017-11-04 09:59:32	20	18.6	20	19.4
1481	2017-11-04 10:14:32	20.6	18.7	20.7	19.8
1482	2017-11-04 10:29:32	21	19.2	21.5	19.9
1483	2017-11-04 10:44:32	21.8	19.5	21.6	20.2
1484	2017-11-04 10:59:32	21.5	19.6	21.7	20.5
1485	2017-11-04 11:14:32	20.6	19.7	21.4	21.1
1486	2017-11-04 11:29:32	20.4	19.8	21.5	20.5
1487	2017-11-04 11:44:32	20.6	19.9	21.8	21.8
1488	2017-11-04 11:59:32	20.6	20.1	22.3	21.6
1489	2017-11-04 12:14:32	20.8	20.2	22.3	21.2
1490	2017-11-04 12:29:32	20.9	20.3	22.2	21.3
1491	2017-11-04 12:44:32	20.5	20.3	21.8	21.3
1492	2017-11-04 12:59:32	20.6	20.4	21.7	21.1
1493	2017-11-04 13:14:32	20.5	20.3	21.5	20.8
1494	2017-11-04 13:29:32	20.4	20.4	21.5	20.6
1495	2017-11-04 13:44:32	21.2	20.7	22	21.5
1496	2017-11-04 13:59:32	20.9	20.9	22.2	21.2
1497	2017-11-04 14:14:32	20.7	20.8	22	21.2
1498	2017-11-04 14:29:32	21.4	20.9	22.1	21.4
1499	2017-11-04 14:44:32	21	20.9	22.2	21.3
1500	2017-11-04 14:59:32	20.7	20.9	22.1	20.9
1501	2017-11-04 15:14:32	20.6	20.9	22	21.1
1502	2017-11-04 15:29:32	20.7	20.9	21.8	20.9
1503	2017-11-04 15:44:32	20.3	20.8	21.5	20.9
1504	2017-11-04 15:59:32	20	20.7	21.2	20.5
1505	2017-11-04 16:14:32	19.8	20.6	20.9	20.3

1506	2017-11-04 16:29:32	19.8	20.6	20.7	20.2
1507	2017-11-04 16:44:32	19.7	20.5	20.4	20.3
1508	2017-11-04 16:59:32	19.5	20.5	20.3	20.3
1509	2017-11-04 17:14:32	19.4	20.5	20.1	20.1
1510	2017-11-04 17:29:32	19.3	20.4	19.9	19.8
1511	2017-11-04 17:44:32	19.2	20.4	19.8	19.7
1512	2017-11-04 17:59:32	19.2	20.4	19.6	19.5
1513	2017-11-04 18:14:32	19.1	20.3	19.5	19.4
1514	2017-11-04 18:29:32	19	20.3	19.5	19.2
1515	2017-11-04 18:44:32	18.7	20.1	19.2	18.9
1516	2017-11-04 18:59:32	18.6	20	19.2	18.6
1517	2017-11-04 19:14:32	18.4	19.9	19	18.4
1518	2017-11-04 19:29:32	18.4	19.8	18.8	18.4
1519	2017-11-04 19:44:32	18.2	19.7	18.8	18.2
1520	2017-11-04 19:59:32	18.1	19.6	18.7	18.1
1521	2017-11-04 20:14:32	18	19.5	18.5	18
1522	2017-11-04 20:29:32	17.8	19.4	18.4	18
1523	2017-11-04 20:44:32	17.7	19.4	18.4	17.9
1524	2017-11-04 20:59:32	17.6	19.3	18.3	17.7
1525	2017-11-04 21:14:32	17.6	19.2	18.2	17.6
1526	2017-11-04 21:29:32	17.6	19.2	18.2	17.7
1527	2017-11-04 21:44:32	17.7	19.2	18	17.8
1528	2017-11-04 21:59:32	17.7	19.2	18	17.6
1529	2017-11-04 22:14:32	17.6	19.2	17.5	17.5
1530	2017-11-04 22:29:32	17.6	19.2	17.3	17.4
1531	2017-11-04 22:44:32	17.5	19.1	17.1	17.3
1532	2017-11-04 22:59:32	17.4	19	16.9	17.2
1533	2017-11-04 23:14:32	17.2	18.8	16.8	17
1534	2017-11-04 23:29:32	17.1	18.7	16.9	16.8
1535	2017-11-04 23:44:32	17	18.6	16.7	16.7
1536	2017-11-04 23:59:32	16.7	18.5	16.4	16.5
1537	2017-11-05 00:14:32	16.7	18.4	16.2	16.3
1538	2017-11-05 00:29:32	16.5	18.3	16.1	16.3
1539	2017-11-05 00:44:32	16.5	18.3	16.3	16.4
1540	2017-11-05 00:59:32	16.4	18.2	16.6	16.4
1541	2017-11-05 01:14:32	16.7	18.2	16.7	16.7
1542	2017-11-05 01:29:32	17.6	18.2	17.1	17.4
1543	2017-11-05 01:44:32	18.1	18.3	17.9	17.7
1544	2017-11-05 01:59:32	18	18.4	18.4	18.1
1545	2017-11-05 02:14:32	18.1	18.6	18.6	17.9
1546	2017-11-05 02:29:32	18.2	18.6	18.5	18
1547	2017-11-05 02:44:32	18.1	18.6	18.3	18

1548	2017-11-05 02:59:32	18	18.6	18.3	17.9
1549	2017-11-05 03:14:32	17.9	18.6	18.4	17.8
1550	2017-11-05 03:29:32	18.2	18.7	18.8	18
1551	2017-11-05 03:44:32	18.2	19	18.8	18
1552	2017-11-05 03:59:32	18	19	18.9	17.9
1553	2017-11-05 04:14:32	18.3	19	19	18
1554	2017-11-05 04:29:32	18.6	19.1	19.1	18.2
1555	2017-11-05 04:44:32	18.4	19	18.7	18
1556	2017-11-05 04:59:32	18.3	18.6	18.7	17.8
1557	2017-11-05 05:14:32	18.1	18.6	18	18
1558	2017-11-05 05:29:32	18	18.2	17.7	17.8
1559	2017-11-05 05:44:32	17.7	18	17.4	17.8
1560	2017-11-05 05:59:32	17.3	17.8	17.2	17.4
1561	2017-11-05 06:14:32	17.4	17.6	17.2	17.2
1562	2017-11-05 06:29:32	17.4	17.7	17.5	17.3
1563	2017-11-05 06:44:32	17.5	17.7	17.6	17.5
1564	2017-11-05 06:59:32	17.8	17.9	17.9	17.7
1565	2017-11-05 07:14:32	17.6	18.1	17.6	17.6
1566	2017-11-05 07:29:32	17.5	17.6	16.9	17.6
1567	2017-11-05 07:44:32	17.5	17.6	16.8	17.4
1568	2017-11-05 07:59:32	17.3	17.5	16.5	17
1569	2017-11-05 08:14:32	17.2	17.4	16.4	17
1570	2017-11-05 08:29:32	17.4	17.6	16.5	17.1
1571	2017-11-05 08:44:32	17.4	17.6	16.7	17
1572	2017-11-05 08:59:32	17.1	17.6	16.7	17.1
1573	2017-11-05 09:14:32	17.2	17.5	16.9	17.3
1574	2017-11-05 09:29:32	17.5	17.6	17.2	17.4
1575	2017-11-05 09:44:32	17.7	17.7	17.3	17.7
1576	2017-11-05 09:59:32	17.8	17.7	17.4	17.7
1577	2017-11-05 10:14:32	17.9	17.7	17.5	17.7
1578	2017-11-05 10:29:32	17.9	17.6	17.4	17.7
1579	2017-11-05 10:44:32	17.8	17.7	17.3	17.8
1580	2017-11-05 10:59:32	18	17.6	17.4	17.9
1581	2017-11-05 11:14:32	18	17.6	17.3	17.9
1582	2017-11-05 11:29:32	18	17.6	17.1	17.8
1583	2017-11-05 11:44:32	18.1	17.7	17.1	18.1
1584	2017-11-05 11:59:32	18.2	17.7	17	18.1
1585	2017-11-05 12:14:32	18.2	17.7	17.1	18.1
1586	2017-11-05 12:29:32	18.2	17.6	17.1	18.2
1587	2017-11-05 12:44:32	18.2	17.4	16.9	18.2
1588	2017-11-05 12:59:32	18.4	17.3	16.9	18.5
1589	2017-11-05 13:14:32	18.5	17.4	17.1	18.5

1590	2017-11-05 13:29:32	19.4	17.8	18	19.6
1591	2017-11-05 13:44:32	20	18.2	18.8	19.5
1592	2017-11-05 13:59:32	20.3	18.6	19.2	19.6
1593	2017-11-05 14:14:32	20.2	18.9	19.9	19.6
1594	2017-11-05 14:29:32	20.7	19.2	20.1	19.7
1595	2017-11-05 14:44:32	20.9	19.4	20	20
1596	2017-11-05 14:59:32	20.6	19.5	20.1	20.5
1597	2017-11-05 15:14:32	20.4	19.6	20.3	20.3
1598	2017-11-05 15:29:32	20.5	19.5	20.2	20.3
1599	2017-11-05 15:44:32	20.1	19.7	19.8	20
1600	2017-11-05 15:59:32	19.7	19.4	19.6	19.8
1601	2017-11-05 16:14:32	19.8	19.3	19.6	19.8
1602	2017-11-05 16:29:32	19.7	19.2	19.3	19.9
1603	2017-11-05 16:44:32	19.8	19.3	19.2	20.3
1604	2017-11-05 16:59:32	19.7	19.7	19.2	20
1605	2017-11-05 17:14:32	19.2	19.7	19.3	19.4
1606	2017-11-05 17:29:32	18.6	19.3	19.1	18.7
1607	2017-11-05 17:44:32	18.2	19.2	18.7	18.2
1608	2017-11-05 17:59:32	17.9	19	18.5	17.8
1609	2017-11-05 18:14:32	17.4	18.8	17.8	17.2
1610	2017-11-05 18:29:32	17.1	18.6	17.1	16.8
1611	2017-11-05 18:44:32	17	18.4	16.8	16.6
1612	2017-11-05 18:59:32	16.9	18.3	16.4	16.5
1613	2017-11-05 19:14:32	16.7	18.1	16.1	16.3
1614	2017-11-05 19:29:32	16.6	18	15.9	16.6
1615	2017-11-05 19:44:32	16.6	18	15.9	16.5
1616	2017-11-05 19:59:32	16.7	18.2	16	16.6
1617	2017-11-05 20:14:32	17.3	18.3	16	16.8
1618	2017-11-05 20:29:32	17.1	18.2	15.9	16.7
1619	2017-11-05 20:44:32	16.9	18.1	15.8	16.8
1620	2017-11-05 20:59:32	16.7	18	16	16.8
1621	2017-11-05 21:14:32	16.7	18.1	16.1	16.3
1622	2017-11-05 21:29:32	16.9	18.3	17	16.1
1623	2017-11-05 21:44:32	17.1	18.2	16.7	16.1
1624	2017-11-05 21:59:32	17.1	18.2	17	16.2
1625	2017-11-05 22:14:32	17.1	18.2	16.9	17
1626	2017-11-05 22:29:32	16.9	18	16.8	16.8
1627	2017-11-05 22:44:32	16.6	18	16.9	16.3
1628	2017-11-05 22:59:32	16.2	18	16.7	16.1
1629	2017-11-05 23:14:32	15.7	17.8	16	15.7
1630	2017-11-05 23:29:32	15.8	17.8	15.7	15.4
1631	2017-11-05 23:44:32	16.1	17.9	15.4	15.7

1632	2017-11-05 23:59:32	16.4	17.7	15.3	15.7
1633	2017-11-06 00:14:32	16.6	17.7	15.3	15.7
1634	2017-11-06 00:29:32	16.3	17.8	16.4	15.7
1635	2017-11-06 00:44:32	16	17.8	16.8	15.4
1636	2017-11-06 00:59:32	16	17.9	17	15.7
1637	2017-11-06 01:14:32	16.1	17.8	16.8	16.2
1638	2017-11-06 01:29:32	16.3	17.7	16.1	15.7
1639	2017-11-06 01:44:32	16	17.5	15.7	15.3
1640	2017-11-06 01:59:32	16	17.3	15.4	15
1641	2017-11-06 02:14:32	15.5	17.1	15.2	14.9
1642	2017-11-06 02:29:32	15.3	17	14.9	14.8
1643	2017-11-06 02:44:32	15.1	16.9	14.6	14.7
1644	2017-11-06 02:59:32	15.1	17	14.4	14.6
1645	2017-11-06 03:14:32	14.9	17	14.3	14.6
1646	2017-11-06 03:29:32	14.9	17	14.2	14.7
1647	2017-11-06 03:44:32	14.8	16.9	14.1	14.5
1648	2017-11-06 03:59:32	14.7	16.8	14	14.5
1649	2017-11-06 04:14:32	15.1	16.8	13.9	14.4
1650	2017-11-06 04:29:32	15.4	16.8	14	14.6
1651	2017-11-06 04:44:32	15.5	16.8	14	15.2
1652	2017-11-06 04:59:32	16.1	16.8	14	15.9
1653	2017-11-06 05:14:32	16.5	17.1	15	16
1654	2017-11-06 05:29:32	16.5	17.3	16	15.9
1655	2017-11-06 05:44:32	16.4	17.4	16.2	16
1656	2017-11-06 05:59:32	16	17.3	15.7	15.9
1657	2017-11-06 06:14:32	16.2	17.1	15.2	15.8
1658	2017-11-06 06:29:32	16.2	17.1	14.8	15.7
1659	2017-11-06 06:44:32	15.8	17	14.7	15.3
1660	2017-11-06 06:59:32	15.3	16.9	14.5	14.8
1661	2017-11-06 07:14:32	15.1	16.7	14.2	14.5
1662	2017-11-06 07:29:32	15	16.7	14	14.3
1663	2017-11-06 07:44:32	15.2	16.6	14.1	14.4
1664	2017-11-06 07:59:32	15.7	16.5	14.6	14.7
1665	2017-11-06 08:14:32	16.3	16.7	15	15.1
1666	2017-11-06 08:29:32	17.1	16.8	15.6	15.6
1667	2017-11-06 08:44:32	17.4	17	16.5	16.3
1668	2017-11-06 08:59:32	18	17.3	17.4	17
1669	2017-11-06 09:14:32	18.9	17.6	18.5	17.7
1670	2017-11-06 09:29:32	20.1	17.8	19.2	18.1
1671	2017-11-06 09:44:32	20.3	18	20.1	18.5
1672	2017-11-06 09:59:32	20.6	18.2	20.7	18.9
1673	2017-11-06 10:14:32	20.9	18.5	21.2	19

1674	2017-11-06 10:29:32	21.2	18.7	21.3	19.6
1675	2017-11-06 10:44:32	21	18.9	21.6	20.2
1676	2017-11-06 10:59:32	21.1	19.2	21.8	19.6
1677	2017-11-06 11:14:32	21.6	19.3	21.7	19.3
1678	2017-11-06 11:29:32	21.2	19.4	21.7	19.7
1679	2017-11-06 11:44:32	21.1	19.6	22.2	19.7
1680	2017-11-06 11:59:32	20.9	19.8	22.1	19.2
1681	2017-11-06 12:14:32	19.9	19.8	22.2	19.2
1682	2017-11-06 12:29:32	21.1	19.8	21.8	19.3
1683	2017-11-06 12:44:32	20.5	20.2	21.9	20.4
1684	2017-11-06 12:59:32	20.9	20.3	22.2	20
1685	2017-11-06 13:14:32	22	20.5	22.5	20.7
1686	2017-11-06 13:29:32	21.6	20.6	22.5	20.7
1687	2017-11-06 13:44:32	21.9	20.8	22.6	21
1688	2017-11-06 13:59:32	21.7	20.9	22.6	20.3
1689	2017-11-06 14:14:32	20.5	21	22.5	19.8
1690	2017-11-06 14:29:32	20.9	21.1	22.5	20.3
1691	2017-11-06 14:44:32	21.2	21.1	22.4	20.9
1692	2017-11-06 14:59:32	21.7	20.9	22.1	21.2
1693	2017-11-06 15:14:32	21.6	21	21.7	20.9
1694	2017-11-06 15:29:32	21	20.8	21.1	20.5
1695	2017-11-06 15:44:32	21.4	20.6	20.8	20.4
1696	2017-11-06 15:59:32	21.1	20.5	20.6	20.4
1697	2017-11-06 16:14:32	20.9	20.6	20.5	20.6
1698	2017-11-06 16:29:32	20.6	20.7	20.7	20.3
1699	2017-11-06 16:44:32	20.5	20.6	20.7	20
1700	2017-11-06 16:59:32	20.3	20.5	20.6	20
1701	2017-11-06 17:14:32	20	20.4	20.5	19.8
1702	2017-11-06 17:29:32	20	20.3	20.3	19.6
1703	2017-11-06 17:44:32	19.7	20.2	20.2	19.4
1704	2017-11-06 17:59:32	19.5	20.2	19.9	19.1
1705	2017-11-06 18:14:32	19.2	20	19.7	18.6
1706	2017-11-06 18:29:32	19	19.9	19.2	18.3
1707	2017-11-06 18:44:32	18.6	19.8	18.9	17.9
1708	2017-11-06 18:59:32	18.4	19.6	18.7	17.6
1709	2017-11-06 19:14:32	18.1	19.4	18.5	17.4
1710	2017-11-06 19:29:32	18	19.4	18	17.3
1711	2017-11-06 19:44:32	18	19.3	17.9	17.3
1712	2017-11-06 19:59:32	17.9	19.2	17.8	17.3
1713	2017-11-06 20:14:32	17.7	19.1	17.4	17.1
1714	2017-11-06 20:29:32	17.6	19	17.1	16.8
1715	2017-11-06 20:44:32	17.4	18.9	16.9	16.7

1716	2017-11-06 20:59:32	17.4	18.8	16.8	16.6
1717	2017-11-06 21:14:32	17.4	18.7	16.5	16.6
1718	2017-11-06 21:29:32	17.4	18.7	16.4	16.7
1719	2017-11-06 21:44:32	17.5	18.6	16.2	16.7
1720	2017-11-06 21:59:32	17.4	18.5	16	16.7
1721	2017-11-06 22:14:32	17.2	18.5	15.9	16.7
1722	2017-11-06 22:29:32	17.1	18.3	15.8	16.4
1723	2017-11-06 22:44:32	17.2	18.3	15.8	16.3
1724	2017-11-06 22:59:32	17	18.3	15.6	16.2
1725	2017-11-06 23:14:32	16.8	18.1	15.4	16
1726	2017-11-06 23:29:32	16.4	18	15.2	15.6
1727	2017-11-06 23:44:32	16.3	18	15	15.4
1728	2017-11-06 23:59:32	16.2	17.9	14.9	15.2
1729	2017-11-07 00:14:32	16	17.7	14.7	14.9
1730	2017-11-07 00:29:32	15.8	17.5	14.4	14.8
1731	2017-11-07 00:44:32	15.6	17.4	14.2	14.8
1732	2017-11-07 00:59:32	15.5	17.4	14	14.7
1733	2017-11-07 01:14:32	15.5	17.4	14	14.7
1734	2017-11-07 01:29:32	15.5	17.3	13.9	14.6
1735	2017-11-07 01:44:32	15.4	17.3	13.8	14.5
1736	2017-11-07 01:59:32	15.2	17.1	13.6	14.6
1737	2017-11-07 02:14:32	15.2	17	13.5	14.5
1738	2017-11-07 02:29:32	15.2	17	13.4	14.4
1739	2017-11-07 02:44:32	15	16.8	13.4	14.4
1740	2017-11-07 02:59:32	15	16.8	13.3	14.3
1741	2017-11-07 03:14:32	14.8	16.8	13.3	14.2
1742	2017-11-07 03:29:32	14.7	16.7	13.1	14.2
1743	2017-11-07 03:44:32	14.6	16.7	13.1	14.2
1744	2017-11-07 03:59:32	14.6	16.6	13	14.2
1745	2017-11-07 04:14:32	14.4	16.6	13	14.1
1746	2017-11-07 04:29:32	14.3	16.5	12.9	13.9
1747	2017-11-07 04:44:32	14.2	16.5	12.8	13.8
1748	2017-11-07 04:59:32	14.1	16.5	12.9	13.7
1749	2017-11-07 05:14:32	14	16.5	12.9	13.7
1750	2017-11-07 05:29:32	14	16.5	12.9	13.6
1751	2017-11-07 05:44:32	13.9	16.4	12.8	13.6
1752	2017-11-07 05:59:32	14	16.3	12.8	13.7
1753	2017-11-07 06:14:32	14	16.3	12.8	13.7
1754	2017-11-07 06:29:32	14	16.3	12.9	13.8
1755	2017-11-07 06:44:32	14	16.2	12.9	14
1756	2017-11-07 06:59:32	14	16.2	12.9	14.5
1757	2017-11-07 07:14:32	14.1	16.3	13.1	14.8

1758	2017-11-07 07:29:32	14.1	16.4	13.2	14.5
1759	2017-11-07 07:44:32	14.5	16.5	13.4	14.9
1760	2017-11-07 07:59:32	15.6	16.7	14	15.9
1761	2017-11-07 08:14:32	16.4	16.8	14.8	16.6
1762	2017-11-07 08:29:32	17.1	17	15.8	17.2
1763	2017-11-07 08:44:32	18.2	17.4	17.4	18
1764	2017-11-07 08:59:32	19.2	17.8	18.9	18.5
1765	2017-11-07 09:14:32	19.9	18	20.1	18.6
1766	2017-11-07 09:29:32	21.2	18.2	21	19.6
1767	2017-11-07 09:44:32	20.9	18.4	21.7	19.7
1768	2017-11-07 09:59:32	21.3	18.6	22	19.9
1769	2017-11-07 10:14:32	21.4	18.7	22.4	20.1
1770	2017-11-07 10:29:32	21.8	19.1	22.7	20.6
1771	2017-11-07 10:44:32	22.3	19.4	22.8	21.6
1772	2017-11-07 10:59:32	21.9	19.7	23.5	21.4
1773	2017-11-07 11:14:32	22.3	20	23.5	22.2
1774	2017-11-07 11:29:32	22.9	20.2	23.9	22.7
1775	2017-11-07 11:44:32	22.8	20.3	24.8	22.8
1776	2017-11-07 11:59:32	22.5	20.5	24.7	23.4
1777	2017-11-07 12:14:32	22.4	20.7	24.3	23
1778	2017-11-07 12:29:32	22.7	21	24	23.3
1779	2017-11-07 12:44:32	22.2	21.4	23.8	23
1780	2017-11-07 12:59:32	22.4	21.2	23.2	22.9
1781	2017-11-07 13:14:32	22.5	21	22.4	22.9
1782	2017-11-07 13:29:32	21.8	20.9	22	22.9
1783	2017-11-07 13:44:32	21.5	20.7	21.8	23.2
1784	2017-11-07 13:59:32	22.2	20.7	21.7	22.6
1785	2017-11-07 14:14:32	21.6	20.6	21.5	22.3
1786	2017-11-07 14:29:32	21.4	20.6	20.8	22
1787	2017-11-07 14:44:32	21	20.2	19.2	21.5
1788	2017-11-07 14:59:32	20.9	19.8	19.1	21.4
1789	2017-11-07 15:14:32	20.9	19.8	19	21.4
1790	2017-11-07 15:29:32	20.9	19.8	19	21.3
1791	2017-11-07 15:44:32	21.8	20	19.2	21.6
1792	2017-11-07 15:59:32	21.8	20.1	19.3	22.1
1793	2017-11-07 16:14:32	21.4	20	19.3	22
1794	2017-11-07 16:29:32	21.3	20	19.2	21.5
1795	2017-11-07 16:44:32	21.5	20	19.3	21.4
1796	2017-11-07 16:59:32	20.9	20.1	19.3	21.1
1797	2017-11-07 17:14:32	20.6	20	19.2	20.7
1798	2017-11-07 17:29:32	20.2	19.8	18.9	20.1
1799	2017-11-07 17:44:32	19.8	19.7	18.7	19.6

1800	2017-11-07 17:59:32	19.6	19.5	18.5	19.2
1801	2017-11-07 18:14:32	19.2	19.4	18.3	18.8
1802	2017-11-07 18:29:32	18.9	19.2	18.1	18.5
1803	2017-11-07 18:44:32	18.6	19.2	17.8	18.2
1804	2017-11-07 18:59:32	18.4	19.2	17.5	17.9
1805	2017-11-07 19:14:32	18.2	19	17.3	17.6
1806	2017-11-07 19:29:32	18.2	18.9	17.1	17.4
1807	2017-11-07 19:44:32	18.1	18.7	16.9	17.3
1808	2017-11-07 19:59:32	18	18.7	16.6	17.1
1809	2017-11-07 20:14:32	17.8	18.6	16.3	17
1810	2017-11-07 20:29:32	17.7	18.5	16	16.8
1811	2017-11-07 20:44:32	17.6	18.4	15.8	16.8
1812	2017-11-07 20:59:32	17.6	18.3	15.6	16.7
1813	2017-11-07 21:14:32	17.6	18.2	15.4	16.6
1814	2017-11-07 21:29:32	17.4	18.2	15.4	16.5
1815	2017-11-07 21:44:32	17.5	18.1	15.4	16.6
1816	2017-11-07 21:59:32	17.7	18.2	15.4	16.7
1817	2017-11-07 22:14:32	17.8	18.3	15.4	16.8
1818	2017-11-07 22:29:32	17.9	18.3	15.4	16.8
1819	2017-11-07 22:44:32	17.9	18.3	15.5	16.9
1820	2017-11-07 22:59:32	17.9	18.3	15.5	16.9
1821	2017-11-07 23:14:32	17.7	18.3	15.5	16.8
1822	2017-11-07 23:29:32	17.7	18.2	15.6	16.8
1823	2017-11-07 23:44:32	17.5	18.2	15.4	16.7
1824	2017-11-07 23:59:32	17.4	18.1	15.3	16.6
1825	2017-11-08 00:14:32	17.4	18.1	15.2	16.4
1826	2017-11-08 00:29:32	17.3	18	15.1	16.3
1827	2017-11-08 00:44:32	17.4	18	15	16.2
1828	2017-11-08 00:59:32	17.4	18	15	16.3
1829	2017-11-08 01:14:32	17.4	18	14.9	16.3
1830	2017-11-08 01:29:32	17.2	18	15	16.3
1831	2017-11-08 01:44:32	16.9	17.9	15.2	16.2
1832	2017-11-08 01:59:32	16.9	17.8	15.3	16
1833	2017-11-08 02:14:32	16.9	17.8	15.2	15.7
1834	2017-11-08 02:29:32	16.7	17.8	15	15.5
1835	2017-11-08 02:44:32	16.4	17.7	14.8	15.4
1836	2017-11-08 02:59:32	16.4	17.8	14.7	15.3
1837	2017-11-08 03:14:32	16.1	17.6	14.7	15.2
1838	2017-11-08 03:29:32	16.1	18.1	14.5	15.1
1839	2017-11-08 03:44:32	15.7	17.8	14.6	14.9
1840	2017-11-08 03:59:32	15.7	18.3	14.7	14.8
1841	2017-11-08 04:14:32	15.6	18.9	14.8	14.8

1842	2017-11-08 04:29:32	15.7	19.2	15.9	14.8
1843	2017-11-08 04:44:32	19.5	19.3	16.6	15.2
1844	2017-11-08 04:59:32	20.1	19.5	17	15.9
1845	2017-11-08 05:14:32	20.1	19.5	17.3	17.3
1846	2017-11-08 05:29:32	20.1	19.5	17.6	17.9
1847	2017-11-08 05:44:32	20.1	19.4	17.7	18
1848	2017-11-08 05:59:32	20.2	19.4	17.9	18
1849	2017-11-08 06:14:32	20.1	19.5	18.2	18.3
1850	2017-11-08 06:29:32	20.2	19.5	18.4	18.3
1851	2017-11-08 06:44:32	20.1	19.6	18.5	18.6
1852	2017-11-08 06:59:32	20.2	19.6	18.6	18.7
1853	2017-11-08 07:14:32	20.1	19.6	18.7	18.7
1854	2017-11-08 07:29:32	20.1	19.6	18.6	18.8
1855	2017-11-08 07:44:32	20.1	19.6	18.7	19
1856	2017-11-08 07:59:32	20.2	19.5	19	19.1
1857	2017-11-08 08:14:32	20.3	19.6	19.3	19.2
1858	2017-11-08 08:29:32	20.4	19.7	19.8	19.2
1859	2017-11-08 08:44:32	20.5	19.8	20.2	19.4
1860	2017-11-08 08:59:32	20.8	19.8	20.7	19.6
1861	2017-11-08 09:14:32	21.2	19.8	21.1	19.9
1862	2017-11-08 09:29:32	21.3	19.9	21.5	20.2
1863	2017-11-08 09:44:32	21.4	20	21.8	20.4
1864	2017-11-08 09:59:32	21.5	20.2	22.2	20.6
1865	2017-11-08 10:14:32	21.6	20.3	22.4	20.9
1866	2017-11-08 10:29:32	21.8	20.5	22.5	21.2
1867	2017-11-08 10:44:32	21.9	20.5	22.7	22
1868	2017-11-08 10:59:32	22	20.7	23	22.4
1869	2017-11-08 11:14:32	22.1	20.8	23.2	22.7
1870	2017-11-08 11:29:32	22.2	20.9	23.5	22.9
1871	2017-11-08 11:44:32	22.4	21	24.3	23
1872	2017-11-08 11:59:32	22.4	21.2	24.2	23.2
1873	2017-11-08 12:14:32	22.5	21.3	23.7	23.4
1874	2017-11-08 12:29:32	22.5	21.5	23.6	23.3
1875	2017-11-08 12:44:32	22.6	21.6	23.7	23.4
1876	2017-11-08 12:59:32	22.9	21.9	23.5	23.4
1877	2017-11-08 13:14:32	22.9	21.9	23.6	23.2
1878	2017-11-08 13:29:32	22.9	22	23.5	23.2
1879	2017-11-08 13:44:32	22.9	22.1	23.5	23.2
1880	2017-11-08 13:59:32	23	22.2	23.5	23.2
1881	2017-11-08 14:14:32	22.9	22.2	23.5	23
1882	2017-11-08 14:29:32	22.8	22.2	23.5	22.9
1883	2017-11-08 14:44:32	23	22.3	23.4	22.9

1884	2017-11-08 14:59:32	23.1	22.3	23.2	22.9
1885	2017-11-08 15:14:32	23.6	22.3	22.9	23
1886	2017-11-08 15:29:32	23	22.2	22.6	23.1
1887	2017-11-08 15:44:32	23.4	22.2	22.2	23.1
1888	2017-11-08 15:59:32	22.9	22.2	21.9	23
1889	2017-11-08 16:14:32	22.9	22.2	21.7	22.9
1890	2017-11-08 16:29:32	23.1	22.1	21.5	22.6
1891	2017-11-08 16:44:32	22.7	21.9	21.3	22.3
1892	2017-11-08 16:59:32	22.1	21.7	20.9	22
1893	2017-11-08 17:14:32	21.5	21.7	20.4	21.2
1894	2017-11-08 17:29:32	20.9	21.5	19.9	20.2
1895	2017-11-08 17:44:32	20.4	21.4	19.4	19.4
1896	2017-11-08 17:59:32	19.9	21	18.8	18.9
1897	2017-11-08 18:14:32	19.6	20.8	18.2	18.5
1898	2017-11-08 18:29:32	19.5	20.6	17.7	18
1899	2017-11-08 18:44:32	19.2	20.5	17.3	17.8
1900	2017-11-08 18:59:32	19.2	20.3	16.9	17.6
1901	2017-11-08 19:14:32	19.1	20.3	16.7	17.4
1902	2017-11-08 19:29:32	18.9	20.2	16.5	17.4
1903	2017-11-08 19:44:32	18.8	20	16.2	17.3
1904	2017-11-08 19:59:32	18.7	19.9	16	17.2
1905	2017-11-08 20:14:32	18.6	19.8	15.8	17
1906	2017-11-08 20:29:32	18.6	19.8	15.6	17
1907	2017-11-08 20:44:32	18.5	19.7	15.5	17
1908	2017-11-08 20:59:32	18.4	19.6	15.4	17.2
1909	2017-11-08 21:14:32	18.4	19.6	15.3	17.3
1910	2017-11-08 21:29:32	18.3	19.6	15.3	17.4
1911	2017-11-08 21:44:32	18.2	19.7	15.3	17.6
1912	2017-11-08 21:59:32	18.3	19.8	15.3	17.7
1913	2017-11-08 22:14:32	18.3	19.7	15.3	17.7
1914	2017-11-08 22:29:32	18.3	19.7	15.3	17.8
1915	2017-11-08 22:44:32	18.2	19.7	15.4	17.8
1916	2017-11-08 22:59:32	18.2	19.6	15.3	17.7
1917	2017-11-08 23:14:32	18.1	19.6	15.3	17.7
1918	2017-11-08 23:29:32	18	19.5	15.3	17.5
1919	2017-11-08 23:44:32	18.1	19.5	15.3	17.7
1920	2017-11-08 23:59:32	18.2	19.4	15.2	17.8
1921	2017-11-09 00:14:32	18.2	19.4	15.2	17.7
1922	2017-11-09 00:29:32	18.1	19.4	15.1	17.6
1923	2017-11-09 00:44:32	18	19.3	15.1	17.3
1924	2017-11-09 00:59:32	18	19.2	15	17.2
1925	2017-11-09 01:14:32	17.9	19.2	14.9	17.2

1926	2017-11-09 01:29:32	17.8	19	14.9	17.1
1927	2017-11-09 01:44:32	17.5	18.9	14.8	17
1928	2017-11-09 01:59:32	17.3	18.7	14.7	16.8
1929	2017-11-09 02:14:32	17.3	18.7	14.6	16.7
1930	2017-11-09 02:29:32	16.9	18.6	14.4	16.4
1931	2017-11-09 02:44:32	16.7	18.4	14.6	16.1
1932	2017-11-09 02:59:32	16.9	18.2	14.3	15.9
1933	2017-11-09 03:14:32	16.7	18.1	14.3	15.9
1934	2017-11-09 03:29:32	16.7	17.9	14.1	15.7
1935	2017-11-09 03:44:32	16.6	17.7	14	15.9
1936	2017-11-09 03:59:32	16.5	17.6	14.2	16
1937	2017-11-09 04:14:32	16.4	17.6	13.8	15.7
1938	2017-11-09 04:29:32	16.1	17.4	13.6	15.6
1939	2017-11-09 04:44:32	15.9	17.4	13.4	15.4
1940	2017-11-09 04:59:32	15.8	17.4	13.4	15.4
1941	2017-11-09 05:14:32	15.7	17.4	13.2	15.4
1942	2017-11-09 05:29:32	15.6	17.4	13.1	15.4
1943	2017-11-09 05:44:32	15.5	17.3	13	15.4
1944	2017-11-09 05:59:32	15.5	17.3	13	15.4
1945	2017-11-09 06:14:32	15.4	17.2	12.9	15.3
1946	2017-11-09 06:29:32	15.4	17.2	12.8	15.1
1947	2017-11-09 06:44:32	15.4	17.3	12.9	15
1948	2017-11-09 06:59:32	15.3	17.2	12.9	14.9
1949	2017-11-09 07:14:32	15.2	17.1	12.9	15.1
1950	2017-11-09 07:29:32	15.4	17.1	12.9	15.2
1951	2017-11-09 07:44:32	15.6	17.1	13	15.2
1952	2017-11-09 07:59:32	15.9	17.1	13.2	15.5
1953	2017-11-09 08:14:32	16.5	17.2	13.8	16
1954	2017-11-09 08:29:32	17.4	17.3	14.6	16.5
1955	2017-11-09 08:44:32	18.1	17.5	15.5	17
1956	2017-11-09 08:59:32	18.7	17.8	16.6	17.7
1957	2017-11-09 09:14:32	19.8	18.2	17.7	18.5
1958	2017-11-09 09:29:32	21.3	18.4	18.8	19.1
1959	2017-11-09 09:44:32	21.9	18.7	19.9	19.5
1960	2017-11-09 09:59:32	22.1	19.1	20.9	19.8
1961	2017-11-09 10:14:32	22.3	19.2	21.6	20.2
1962	2017-11-09 10:29:32	22.7	19.5	22.2	20.7
1963	2017-11-09 10:44:32	22.8	19.7	22.6	21.6
1964	2017-11-09 10:59:32	22.9	19.8	23.1	22.4
1965	2017-11-09 11:14:32	22.6	19.9	23.4	22.9
1966	2017-11-09 11:29:32	22.9	20.2	23.8	23.1
1967	2017-11-09 11:44:32	23.2	20.3	25	23.4

1968	2017-11-09 11:59:32	23.4	20.4	24.8	23.6
1969	2017-11-09 12:14:32	23.4	20.7	24.4	23.8
1970	2017-11-09 12:29:32	22.9	20.9	23.9	23.8
1971	2017-11-09 12:44:32	22.7	21	23.6	23.6
1972	2017-11-09 12:59:32	23.1	21.3	23.7	23.6
1973	2017-11-09 13:14:32	22.9	21.2	23.6	23.8
1974	2017-11-09 13:29:32	22.9	21.3	23.6	23.5
1975	2017-11-09 13:44:32	22.8	21.4	23.2	23.3
1976	2017-11-09 13:59:32	22.6	21.5	23.2	23.1
1977	2017-11-09 14:14:32	22.7	21.5	23.3	22.9
1978	2017-11-09 14:29:32	22.6	21.6	23.2	22.9
1979	2017-11-09 14:44:32	22.7	21.7	23.1	22.9
1980	2017-11-09 14:59:32	23.2	21.8	22.9	22.9
1981	2017-11-09 15:14:32	23.7	21.8	22.5	23.1
1982	2017-11-09 15:29:32	23	21.7	22.2	23.1
1983	2017-11-09 15:44:32	23	21.7	21.9	23.1
1984	2017-11-09 15:59:32	23.2	21.7	21.6	23
1985	2017-11-09 16:14:32	23.1	21.6	21.4	22.6
1986	2017-11-09 16:29:32	23	21.5	21.2	22.3
1987	2017-11-09 16:44:32	22.7	21.5	21	22.2
1988	2017-11-09 16:59:32	22.1	21.4	20.9	21.8
1989	2017-11-09 17:14:32	21.7	21.3	20.5	21.3
1990	2017-11-09 17:29:32	21.1	21.2	20.1	20.5
1991	2017-11-09 17:44:32	20.7	21	19.6	19.9
1992	2017-11-09 17:59:32	20.3	20.8	19.2	19.4
1993	2017-11-09 18:14:32	20	20.5	18.6	19.2
1994	2017-11-09 18:29:32	19.8	20.4	18.2	18.9
1995	2017-11-09 18:44:32	19.6	20.3	17.9	18.7
1996	2017-11-09 18:59:32	19.5	20.2	17.6	18.6
1997	2017-11-09 19:14:32	19.4	20.1	17.4	18.4
1998	2017-11-09 19:29:32	19.2	20	17.7	18.3
1999	2017-11-09 19:44:32	19.2	19.9	17.8	18.2
2000	2017-11-09 19:59:32	19.2	19.8	17.7	18.2
2001	2017-11-09 20:14:32	19.2	19.8	17.6	18.1
2002	2017-11-09 20:29:32	19.2	19.8	17.7	18
2003	2017-11-09 20:44:32	19.2	19.8	17.4	18
2004	2017-11-09 20:59:32	19.1	19.8	17.1	17.9
2005	2017-11-09 21:14:32	19	19.8	17	17.8
2006	2017-11-09 21:29:32	18.9	19.7	16.7	17.6
2007	2017-11-09 21:44:32	18.6	19.6	16.6	17.4
2008	2017-11-09 21:59:32	18.4	19.5	16.4	17.1
2009	2017-11-09 22:14:32	18.1	19.3	16.2	16.8

2010	2017-11-09 22:29:32	18	19.2	16	16.6
2011	2017-11-09 22:44:32	17.7	19.2	15.9	16.4
2012	2017-11-09 22:59:32	17.5	19	15.7	16.1
2013	2017-11-09 23:14:32	17.4	18.8	15.4	16
2014	2017-11-09 23:29:32	17.3	18.6	15.4	16
2015	2017-11-09 23:44:32	17.1	18.5	15.1	15.9
2016	2017-11-09 23:59:32	16.9	18.4	15	15.8
2017	2017-11-10 00:14:32	16.7	18.3	14.8	15.8
2018	2017-11-10 00:29:32	16.7	18.2	14.7	15.6
2019	2017-11-10 00:44:32	16.7	18	14.6	15.4
2020	2017-11-10 00:59:32	16.6	18	14.5	15.3
2021	2017-11-10 01:14:32	16.4	18	14.4	15.4
2022	2017-11-10 01:29:32	16.6	18	14.4	15.5
2023	2017-11-10 01:44:32	16.7	17.9	14.3	15.5
2024	2017-11-10 01:59:32	16.6	17.9	14.2	15.4
2025	2017-11-10 02:14:32	16.7	17.8	14.2	15.4
2026	2017-11-10 02:29:32	16.6	17.8	14.2	15.5
2027	2017-11-10 02:44:32	16.6	17.7	14.2	15.6
2028	2017-11-10 02:59:32	16.3	17.6	14.1	15.4
2029	2017-11-10 03:14:32	16.1	17.5	14	15.2
2030	2017-11-10 03:29:32	16	17.5	14	15.2
2031	2017-11-10 03:44:32	15.9	17.4	14	15
2032	2017-11-10 03:59:32	15.9	17.4	13.9	14.8
2033	2017-11-10 04:14:32	15.8	17.3	13.8	14.7
2034	2017-11-10 04:29:32	15.6	17.3	13.8	14.7
2035	2017-11-10 04:44:32	15.7	17.3	13.7	14.7
2036	2017-11-10 04:59:32	15.8	17.2	13.7	14.9
2037	2017-11-10 05:14:32	15.8	17.1	13.7	14.9
2038	2017-11-10 05:29:32	15.8	17.1	13.7	14.8
2039	2017-11-10 05:44:32	15.7	17.1	13.7	15
2040	2017-11-10 05:59:32	15.7	17	13.6	15.2
2041	2017-11-10 06:14:32	15.8	17	13.6	15.4
2042	2017-11-10 06:29:32	15.9	17	13.6	15.7
2043	2017-11-10 06:44:32	16	17	13.6	15.7
2044	2017-11-10 06:59:32	16	17	13.6	15.7
2045	2017-11-10 07:14:32	16	17	13.7	15.6
2046	2017-11-10 07:29:32	16.3	17	13.8	15.8
2047	2017-11-10 07:44:32	16.5	17.1	13.9	16.1
2048	2017-11-10 07:59:32	16.8	17.2	14.2	16.5
2049	2017-11-10 08:14:32	17.2	17.3	14.7	16.9
2050	2017-11-10 08:29:32	17.9	17.4	15.4	17.4
2051	2017-11-10 08:44:32	18.4	17.6	16.3	18.1

2052	2017-11-10 08:59:32	19.2	17.9	17.3	18.8
2053	2017-11-10 09:14:32	20.2	18.2	18.4	19.3
2054	2017-11-10 09:29:32	21.5	18.6	19.4	19.8
2055	2017-11-10 09:44:32	22.2	18.9	20.3	20.2
2056	2017-11-10 09:59:32	22.5	19.4	21.3	20.7
2057	2017-11-10 10:14:32	22.9	19.6	21.9	21
2058	2017-11-10 10:29:32	23.1	19.8	22.6	21.6
2059	2017-11-10 10:44:32	23.2	20.1	23.1	22.2
2060	2017-11-10 10:59:32	23.4	20.3	23.5	22.6
2061	2017-11-10 11:14:32	23.5	20.5	23.5	22.2
2062	2017-11-10 11:29:32	23.2	20.6	23.9	22.5
2063	2017-11-10 11:44:32	23.6	20.7	25.1	22.8
2064	2017-11-10 11:59:32	23.9	20.9	25	23.6
2065	2017-11-10 12:14:32	24.1	21	24.7	23.8
2066	2017-11-10 12:29:32	24	21.3	24.5	24.2
2067	2017-11-10 12:44:32	24.1	21.4	23.5	24.4
2068	2017-11-10 12:59:32	24.2	21.5	23.9	24
2069	2017-11-10 13:14:32	24.2	21.7	24	24
2070	2017-11-10 13:29:32	24.3	21.9	24	24
2071	2017-11-10 13:44:32	24.1	21.9	24.1	24
2072	2017-11-10 13:59:32	24.1	22	24.2	23.9
2073	2017-11-10 14:14:32	24	22	24.2	23.5
2074	2017-11-10 14:29:32	24.3	22.1	24.2	23.5
2075	2017-11-10 14:44:32	24	22.2	23.9	23.5
2076	2017-11-10 14:59:32	24	22.2	23.6	23.5
2077	2017-11-10 15:14:32	24	22.2	23.2	23.5
2078	2017-11-10 15:29:32	24.1	22.2	22.9	23.5
2079	2017-11-10 15:44:32	23.8	22.2	22.5	23.4
2080	2017-11-10 15:59:32	23.8	22.2	22.3	23.1
2081	2017-11-10 16:14:32	23.6	22.1	22.1	22.9
2082	2017-11-10 16:29:32	23.3	22	21.9	22.6
2083	2017-11-10 16:44:32	22.9	21.9	21.7	22.2
2084	2017-11-10 16:59:32	22.1	21.7	21.5	21.7
2085	2017-11-10 17:14:32	21.5	21.6	21.1	21.1
2086	2017-11-10 17:29:32	21.3	21.5	20.8	20.7
2087	2017-11-10 17:44:32	20.9	21.3	20.5	20.3
2088	2017-11-10 17:59:32	20.8	21.1	20.3	19.8
2089	2017-11-10 18:14:32	20.4	20.9	20	19.5
2090	2017-11-10 18:29:32	20.3	20.9	19.7	19.4
2091	2017-11-10 18:44:32	20.2	20.8	19.6	19.4
2092	2017-11-10 18:59:32	20.2	20.7	19.2	19.3
2093	2017-11-10 19:14:32	19.9	20.6	19	19.2

2094	2017-11-10 19:29:32	19.8	20.5	19	19.1
2095	2017-11-10 19:44:32	19.8	20.4	19.1	19
2096	2017-11-10 19:59:32	19.7	20.3	18.8	18.9
2097	2017-11-10 20:14:32	19.5	20.3	18.9	18.9
2098	2017-11-10 20:29:32	19.4	20.2	18.6	18.8
2099	2017-11-10 20:44:32	19.3	20.1	18.2	18.7
2100	2017-11-10 20:59:32	19.3	20	18.1	18.6
2101	2017-11-10 21:14:32	19.2	19.9	17.8	18.5
2102	2017-11-10 21:29:32	19	19.9	17.4	18.5
2103	2017-11-10 21:44:32	18.9	19.8	17.4	18.5
2104	2017-11-10 21:59:32	18.7	19.7	17.1	18.2
2105	2017-11-10 22:14:32	18.7	19.6	16.7	18
2106	2017-11-10 22:29:32	18.7	19.5	16.5	17.7
2107	2017-11-10 22:44:32	18.6	19.3	16.2	17.2
2108	2017-11-10 22:59:32	18.5	19.2	16.1	16.8
2109	2017-11-10 23:14:32	18.1	19.2	16.1	16.5
2110	2017-11-10 23:29:32	17.9	18.9	15.8	16.3
2111	2017-11-10 23:44:32	17.6	18.9	15.6	16.2
2112	2017-11-10 23:59:32	17.4	18.7	15.4	16
2113	2017-11-11 00:14:32	17.4	18.7	15.4	15.9
2114	2017-11-11 00:29:32	17.4	18.6	15.2	15.9
2115	2017-11-11 00:44:32	17.4	18.5	15	15.7
2116	2017-11-11 00:59:32	16.9	18.4	14.8	15.7
2117	2017-11-11 01:14:32	17	18.2	14.7	15.8
2118	2017-11-11 01:29:32	16.9	18.1	14.6	15.8
2119	2017-11-11 01:44:32	16.9	18	14.4	15.7
2120	2017-11-11 01:59:32	16.7	18	14.2	15.6
2121	2017-11-11 02:14:32	16.6	17.9	14.1	15.6
2122	2017-11-11 02:29:32	16.7	17.8	14.1	15.5
2123	2017-11-11 02:44:32	16.7	17.7	14	15.7
2124	2017-11-11 02:59:32	16.7	17.7	13.9	16
2125	2017-11-11 03:14:32	16.9	17.8	13.9	15.8
2126	2017-11-11 03:29:32	17	17.7	13.9	15.5
2127	2017-11-11 03:44:32	16.8	17.7	13.8	15.4
2128	2017-11-11 03:59:32	16.7	17.5	13.8	15.4
2129	2017-11-11 04:14:32	16.5	17.5	13.7	15.4
2130	2017-11-11 04:29:32	16.3	17.4	13.7	15.4
2131	2017-11-11 04:44:32	16.4	17.4	13.6	15.4
2132	2017-11-11 04:59:32	16.5	17.3	13.5	15.3
2133	2017-11-11 05:14:32	16.7	17.3	13.5	15.1
2134	2017-11-11 05:29:32	16.4	17.2	13.4	15.2
2135	2017-11-11 05:44:32	16.3	17.2	13.4	15.2

2136	2017-11-11 05:59:32	16.1	17.1	13.4	15
2137	2017-11-11 06:14:32	16.2	17	13.4	15.1
2138	2017-11-11 06:29:32	16.2	16.9	13.3	15
2139	2017-11-11 06:44:32	16	16.9	13.3	15
2140	2017-11-11 06:59:32	15.9	16.8	13.3	14.9
2141	2017-11-11 07:14:32	15.8	16.7	13.2	14.9
2142	2017-11-11 07:29:32	16.1	16.7	13.1	14.8
2143	2017-11-11 07:44:32	16.3	16.7	13.2	14.8
2144	2017-11-11 07:59:32	16.4	16.7	13.4	15.1
2145	2017-11-11 08:14:32	16.8	16.8	14	15.4
2146	2017-11-11 08:29:32	17.6	16.9	14.7	15.8
2147	2017-11-11 08:44:32	18.2	17.1	15.6	16.5
2148	2017-11-11 08:59:32	18.8	17.4	16.6	17.1
2149	2017-11-11 09:14:32	19.7	17.7	17.7	17.9
2150	2017-11-11 09:29:32	21	18	18.6	18.4
2151	2017-11-11 09:44:32	21.5	18.3	19.6	18.8
2152	2017-11-11 09:59:32	21.7	18.5	20.4	19
2153	2017-11-11 10:14:32	22.1	18.7	21.2	18.7
2154	2017-11-11 10:29:32	22.2	18.9	21.1	19.2
2155	2017-11-11 10:44:32	22.2	19	21.4	20
2156	2017-11-11 10:59:32	22.3	19.2	21.2	21.3
2157	2017-11-11 11:14:32	22.7	19.5	20.9	22
2158	2017-11-11 11:29:32	22.7	19.4	20.4	21.5
2159	2017-11-11 11:44:32	22.2	19.4	21.6	21
2160	2017-11-11 11:59:32	21.5	19.6	21.9	21.5
2161	2017-11-11 12:14:32	22	19.9	22.2	21.7
2162	2017-11-11 12:29:32	22.6	20.1	22.2	22.3
2163	2017-11-11 12:44:32	22.6	20.4	22.3	22.7
2164	2017-11-11 12:59:32	22.2	20.4	22	22.6
2165	2017-11-11 13:14:32	22.5	20.6	22.1	22.1
2166	2017-11-11 13:29:32	22.4	20.8	22.2	21.8
2167	2017-11-11 13:44:32	22.2	20.9	22.4	22.1
2168	2017-11-11 13:59:32	22.3	20.9	22.5	22
2169	2017-11-11 14:14:32	22.2	21	22.4	22
2170	2017-11-11 14:29:32	21.9	21.1	22.5	22
2171	2017-11-11 14:44:32	21.8	21.2	22.4	22
2172	2017-11-11 14:59:32	21.9	21.1	22.1	22.1
2173	2017-11-11 15:14:32	22.2	21.1	21.6	22
2174	2017-11-11 15:29:32	21.8	21.1	21.4	22.1
2175	2017-11-11 15:44:32	22	21.1	21.2	22.1
2176	2017-11-11 15:59:32	21.9	21.1	20.9	22
2177	2017-11-11 16:14:32	21.5	20.9	20.8	21.8

2178	2017-11-11 16:29:32	21.5	20.9	20.6	21.5
2179	2017-11-11 16:44:32	21.5	20.8	20.4	21.3
2180	2017-11-11 16:59:32	21.2	20.6	20.2	20.9
2181	2017-11-11 17:14:32	20.8	20.5	19.8	20.3
2182	2017-11-11 17:29:32	20.3	20.3	19.3	19.6
2183	2017-11-11 17:44:32	19.9	20.3	18.8	19
2184	2017-11-11 17:59:32	19.5	20.2	18.3	18.6
2185	2017-11-11 18:14:32	19.1	20	17.8	18.3
2186	2017-11-11 18:29:32	19	19.8	17.4	18.1
2187	2017-11-11 18:44:32	18.9	19.7	17.1	18
2188	2017-11-11 18:59:32	18.8	19.7	17	17.9
2189	2017-11-11 19:14:32	18.6	19.6	16.9	17.6
2190	2017-11-11 19:29:32	18.5	19.6	16.7	17.4
2191	2017-11-11 19:44:32	18.4	19.4	16.4	17.2
2192	2017-11-11 19:59:32	18.1	19.3	16.2	16.9
2193	2017-11-11 20:14:32	18	19.2	16	16.7
2194	2017-11-11 20:29:32	17.9	19	15.6	16.6
2195	2017-11-11 20:44:32	17.9	18.9	15.4	16.5
2196	2017-11-11 20:59:32	17.8	18.6	15.2	16.3
2197	2017-11-11 21:14:32	17.6	18.6	15.2	16.2
2198	2017-11-11 21:29:32	17.8	18.5	15.1	16.3
2199	2017-11-11 21:44:32	18	18.4	14.8	16.5
2200	2017-11-11 21:59:32	18	18.3	14.7	16.5
2201	2017-11-11 22:14:32	17.9	18.2	14.6	16.4
2202	2017-11-11 22:29:32	17.8	18.1	14.5	16.3
2203	2017-11-11 22:44:32	17.7	18	14.3	16.3
2204	2017-11-11 22:59:32	17.8	18	14.4	16.3
2205	2017-11-11 23:14:32	17.9	18	14.6	16.4
2206	2017-11-11 23:29:32	17.9	18	14.7	16.5
2207	2017-11-11 23:44:32	18	18.1	14.7	16.6
2208	2017-11-11 23:59:32	18.1	18	14.7	16.6
2209	2017-11-12 00:14:32	18	18	14.7	16.7
2210	2017-11-12 00:29:32	18	18	14.7	16.8
2211	2017-11-12 00:44:32	18	18	14.7	16.7
2212	2017-11-12 00:59:32	17.8	17.9	14.7	16.4
2213	2017-11-12 01:14:32	17.5	17.8	14.5	16.1
2214	2017-11-12 01:29:32	17.4	17.7	14.4	15.9
2215	2017-11-12 01:44:32	17.3	17.6	14.3	15.8
2216	2017-11-12 01:59:32	17.2	17.6	14.2	15.7
2217	2017-11-12 02:14:32	17.2	17.5	14.2	15.7
2218	2017-11-12 02:29:32	17.2	17.4	14.1	15.6
2219	2017-11-12 02:44:32	17.1	17.4	14	15.6

2220	2017-11-12 02:59:32	17	17.4	13.9	15.5
2221	2017-11-12 03:14:32	17	17.3	13.8	15.4
2222	2017-11-12 03:29:32	16.9	17.2	13.7	15.4
2223	2017-11-12 03:44:32	16.7	17.2	13.6	15.4
2224	2017-11-12 03:59:32	16.7	17.1	13.6	15.3
2225	2017-11-12 04:14:32	16.6	17.1	13.6	15.3
2226	2017-11-12 04:29:32	16.6	17	13.6	15.2
2227	2017-11-12 04:44:32	16.6	16.9	13.5	15.1
2228	2017-11-12 04:59:32	16.4	16.9	13.5	15.1
2229	2017-11-12 05:14:32	16.1	16.8	13.4	15.1
2230	2017-11-12 05:29:32	16.1	16.7	13.4	15.3
2231	2017-11-12 05:44:32	16	16.7	13.4	15.2
2232	2017-11-12 05:59:32	15.9	16.7	13.4	15.4
2233	2017-11-12 06:14:32	15.8	16.7	13.4	15.4
2234	2017-11-12 06:29:32	15.6	16.6	13.4	15.3
2235	2017-11-12 06:44:32	15.4	16.6	13.2	15.3
2236	2017-11-12 06:59:32	15.3	16.5	13.1	14.9
2237	2017-11-12 07:14:32	15.2	16.5	13	15
2238	2017-11-12 07:29:32	15.3	16.5	13.1	15.2
2239	2017-11-12 07:44:32	15.4	16.6	13.3	15.4
2240	2017-11-12 07:59:32	15.6	16.7	13.5	15.5
2241	2017-11-12 08:14:32	16.3	16.7	14.5	16
2242	2017-11-12 08:29:32	16.7	16.9	15	16.4
2243	2017-11-12 08:44:32	17.4	17.1	15.8	16.8
2244	2017-11-12 08:59:32	18	17.3	16.3	17.4
2245	2017-11-12 09:14:32	18.9	17.4	17.4	18
2246	2017-11-12 09:29:32	19.6	17.7	18.2	18.3
2247	2017-11-12 09:44:32	20	17.8	18.6	18.5
2248	2017-11-12 09:59:32	21	18.1	19.8	19.2
2249	2017-11-12 10:14:32	21.3	18.2	20.5	19.6
2250	2017-11-12 10:29:32	21.2	18.4	21	17.8
2251	2017-11-12 10:44:32	21.3	18.7	21.7	18.3
2252	2017-11-12 10:59:32	21.5	19	22.1	19.4
2253	2017-11-12 11:14:32	21.5	19.2	22.2	20.2
2254	2017-11-12 11:29:32	21.7	19.4	22.9	20.9
2255	2017-11-12 11:44:32	21.9	19.6	23.5	21.6
2256	2017-11-12 11:59:32	22	19.8	23.3	21.8
2257	2017-11-12 12:14:32	22	20	22.8	21.9
2258	2017-11-12 12:29:32	22.1	20.2	22.7	21.8
2259	2017-11-12 12:44:32	22.1	20.4	22.7	22.1
2260	2017-11-12 12:59:32	22.2	20.5	22.9	22.5
2261	2017-11-12 13:14:32	22.2	20.8	22.9	22.4

2262	2017-11-12 13:29:32	22.3	20.9	22.9	22.5
2263	2017-11-12 13:44:32	22.2	21	22.8	22.5
2264	2017-11-12 13:59:32	22.2	21.1	22.6	22.2
2265	2017-11-12 14:14:32	22	21.1	22.4	22
2266	2017-11-12 14:29:32	22.2	21.1	22.3	22
2267	2017-11-12 14:44:32	22	21.1	22.1	21.9
2268	2017-11-12 14:59:32	22.1	21.1	22	21.8
2269	2017-11-12 15:14:32	22	21.1	21.8	21.8
2270	2017-11-12 15:29:32	21.6	21.1	21.5	21.6
2271	2017-11-12 15:44:32	21.5	20.9	21.5	21.4
2272	2017-11-12 15:59:32	21.5	20.9	21.4	21.5
2273	2017-11-12 16:14:32	21.2	20.9	21.2	21.2
2274	2017-11-12 16:29:32	21.2	20.9	21.1	21.1
2275	2017-11-12 16:44:32	21.2	20.9	21	21
2276	2017-11-12 16:59:32	21	20.8	20.9	20.9
2277	2017-11-12 17:14:32	20.7	20.7	20.9	20.8
2278	2017-11-12 17:29:32	20.6	20.7	20.7	20.6
2279	2017-11-12 17:44:32	20.5	20.6	20.6	20.5
2280	2017-11-12 17:59:32	20.4	20.6	20.5	20.4
2281	2017-11-12 18:14:32	20.5	20.5	20.3	20.3
2282	2017-11-12 18:29:32	20.3	20.3	20	20
2283	2017-11-12 18:44:32	20	20.1	19.7	19.7
2284	2017-11-12 18:59:32	19.7	19.9	19.4	19.5
2285	2017-11-12 19:14:32	19.6	19.8	19.2	19.2
2286	2017-11-12 19:29:32	19.4	19.7	19.2	19.2
2287	2017-11-12 19:44:32	19.3	19.5	19.1	19.1
2288	2017-11-12 19:59:32	19.2	19.5	19.1	19
2289	2017-11-12 20:14:32	19.2	19.4	19	18.8
2290	2017-11-12 20:29:32	19.1	19.3	18.8	18.7
2291	2017-11-12 20:44:32	19	19.3	18.3	18.7
2292	2017-11-12 20:59:32	18.9	19.2	17.8	18.6
2293	2017-11-12 21:14:32	18.8	19.2	17.7	18.6
2294	2017-11-12 21:29:32	18.8	19.2	17.8	18.6
2295	2017-11-12 21:44:32	18.8	19.1	17.5	18.5
2296	2017-11-12 21:59:32	18.7	19	17.6	18.2
2297	2017-11-12 22:14:32	18.6	19	17.8	18.2
2298	2017-11-12 22:29:32	18.6	18.9	18	18.2
2299	2017-11-12 22:44:32	18.6	19	17.5	18.3
2300	2017-11-12 22:59:32	18.6	18.9	17.5	18.3
2301	2017-11-12 23:14:32	18.6	18.8	18.2	18.2
2302	2017-11-12 23:29:32	18.4	18.8	18.3	18
2303	2017-11-12 23:44:32	18.5	18.8	18.3	18

2304	2017-11-12 23:59:32	18.4	18.8	18.4	18
2305	2017-11-13 00:14:32	18.3	18.7	18.5	17.9
2306	2017-11-13 00:29:32	18.2	18.7	18.3	17.9
2307	2017-11-13 00:44:32	18	18.6	17.8	17.9
2308	2017-11-13 00:59:32	17.9	18.6	17.2	17.9
2309	2017-11-13 01:14:32	17.9	18.6	17.2	18
2310	2017-11-13 01:29:32	18	18.5	17.4	18
2311	2017-11-13 01:44:32	18	18.5	17.5	17.9
2312	2017-11-13 01:59:32	17.9	18.4	17.5	17.9
2313	2017-11-13 02:14:32	17.7	18.4	17.4	17.8
2314	2017-11-13 02:29:32	17.6	18.4	17.1	17.9
2315	2017-11-13 02:44:32	17.7	18.4	17.3	17.8
2316	2017-11-13 02:59:32	17.6	18.4	17.3	17.8
2317	2017-11-13 03:14:32	17.6	18.4	17.3	17.8
2318	2017-11-13 03:29:32	18	18.4	17.9	17.8
2319	2017-11-13 03:44:32	18.2	18.4	18.3	17.9
2320	2017-11-13 03:59:32	18.4	18.4	18.5	17.8
2321	2017-11-13 04:14:32	18.5	18.5	18.6	17.8
2322	2017-11-13 04:29:32	18.6	18.6	18.7	18
2323	2017-11-13 04:44:32	19.2	18.7	18.9	18.2
2324	2017-11-13 04:59:32	19.2	18.8	19.1	18.5
2325	2017-11-13 05:14:32	19.3	18.8	19.2	18.6
2326	2017-11-13 05:29:32	19.3	19	19.2	18.6
2327	2017-11-13 05:44:32	19.4	19.2	19.3	18.6
2328	2017-11-13 05:59:32	19.3	19.1	19.3	18.6
2329	2017-11-13 06:14:32	19.3	19.1	19.3	18.6
2330	2017-11-13 06:29:32	19.2	19.1	19.2	18.6
2331	2017-11-13 06:44:32	19.1	19	19.2	18.6
2332	2017-11-13 06:59:32	19.2	19	19.2	18.6
2333	2017-11-13 07:14:32	19.2	19	19.3	18.5
2334	2017-11-13 07:29:32	19.2	19	19.3	18.6
2335	2017-11-13 07:44:32	19.3	19	19.3	18.6
2336	2017-11-13 07:59:32	19.6	19	19.5	18.8
2337	2017-11-13 08:14:32	19.8	19	19.7	19.1
2338	2017-11-13 08:29:32	20	19.2	19.9	19.3
2339	2017-11-13 08:44:32	20.4	19.3	20.3	19.9
2340	2017-11-13 08:59:32	20.7	19.7	20.9	20.3
2341	2017-11-13 09:14:32	21.3	20.3	21.3	20.6
2342	2017-11-13 09:29:32	21.9	20.5	21.5	21.1
2343	2017-11-13 09:44:32	22.1	20.7	21.5	21.6
2344	2017-11-13 09:59:32	21.9	20.8	22	21.8
2345	2017-11-13 10:14:32	21.7	21	22.1	21.6

2346	2017-11-13 10:29:32	22.2	21.2	22.6	22
2347	2017-11-13 10:44:32	22.2	21.3	22.3	22.3
2348	2017-11-13 10:59:32	22.2	21.4	22.6	22.2
2349	2017-11-13 11:14:32	22.5	21.5	22.8	22.7
2350	2017-11-13 11:29:32	22.9	21.7	22.6	22.9
2351	2017-11-13 11:44:32	23.1	21.8	22.9	23.4
2352	2017-11-13 11:59:32	23.1	22	22.6	23.5
2353	2017-11-13 12:14:32	23.2	22.1	22.8	23.8
2354	2017-11-13 12:29:32	23.3	22.2	22.9	24
2355	2017-11-13 12:44:32	23.3	22.1	22.6	23.4
2356	2017-11-13 12:59:32	22.5	22.1	22.4	22.9
2357	2017-11-13 13:14:32	22.5	22	22.7	22.8
2358	2017-11-13 13:29:32	23	22.2	23	22.9
2359	2017-11-13 13:44:32	23.3	22.3	23.2	23.2
2360	2017-11-13 13:59:32	23.3	22.4	23.4	23.5
2361	2017-11-13 14:14:32	23.1	22.4	23.5	23.4
2362	2017-11-13 14:29:32	23.3	22.5	23.3	23
2363	2017-11-13 14:44:32	23.1	22.5	23.1	22.9
2364	2017-11-13 14:59:32	23	22.5	22.9	23
2365	2017-11-13 15:14:32	22.9	22.5	22.8	23.1
2366	2017-11-13 15:29:32	22.9	22.5	22.7	23
2367	2017-11-13 15:44:32	22.9	22.4	22.6	22.9
2368	2017-11-13 15:59:32	22.8	22.4	22.5	22.8
2369	2017-11-13 16:14:32	22.5	22.3	22.4	22.7
2370	2017-11-13 16:29:32	22.3	22.2	22.3	22.4
2371	2017-11-13 16:44:32	22.3	22.2	22.3	22.4
2372	2017-11-13 16:59:32	22.2	22.2	22.3	22.2
2373	2017-11-13 17:14:32	22.2	22.2	22.2	22.1
2374	2017-11-13 17:29:32	22.1	22.1	22	21.8
2375	2017-11-13 17:44:32	21.9	22	21.7	21.5
2376	2017-11-13 17:59:32	21.5	22	21.5	21.1
2377	2017-11-13 18:14:32	21.3	21.7	21.1	20.8
2378	2017-11-13 18:29:32	21.1	21.5	20.7	20.4
2379	2017-11-13 18:44:32	21	21.3	20.2	20.3
2380	2017-11-13 18:59:32	20.9	21.2	20	20.1
2381	2017-11-13 19:14:32	20.8	21.1	19.8	19.9
2382	2017-11-13 19:29:32	20.5	21.1	19.4	19.7
2383	2017-11-13 19:44:32	20.4	20.9	18.9	19.4
2384	2017-11-13 19:59:32	20.2	20.7	18.6	19.2
2385	2017-11-13 20:14:32	19.9	20.5	18.3	19
2386	2017-11-13 20:29:32	19.8	20.4	17.8	18.8
2387	2017-11-13 20:44:32	19.5	20.3	17.6	18.7

2388	2017-11-13 20:59:32	19.2	20.2	17.5	18.6
2389	2017-11-13 21:14:32	19.2	20.1	17.2	18.2
2390	2017-11-13 21:29:32	19.2	20.1	17.1	18.3
2391	2017-11-13 21:44:32	19.2	20	17	18.4
2392	2017-11-13 21:59:32	19.5	19.9	16.8	18
2393	2017-11-13 22:14:32	19.4	19.8	16.6	18
2394	2017-11-13 22:29:32	20.7	19.8	16.4	17.9
2395	2017-11-13 22:44:32	20.3	19.7	16.3	18
2396	2017-11-13 22:59:32	20	19.7	16.1	17.9
2397	2017-11-13 23:14:32	19.4	19.7	16.1	17.5
2398	2017-11-13 23:29:32	19.2	19.6	16.4	17.7
2399	2017-11-13 23:44:32	19.7	19.8	17.4	18.8
2400	2017-11-13 23:59:32	19.6	19.8	19.2	19.4
2401	2017-11-14 00:14:32	19.4	19.8	19.3	19.3
2402	2017-11-14 00:29:32	19.6	19.9	18.6	19.2
2403	2017-11-14 00:44:32	20.1	19.8	18.1	18.6
2404	2017-11-14 00:59:32	20.4	19.8	18.1	18.5
2405	2017-11-14 01:14:32	20.9	19.7	18	18.3
2406	2017-11-14 01:29:32	20.5	19.7	18.2	18.1
2407	2017-11-14 01:44:32	20	19.7	18.6	18.6
2408	2017-11-14 01:59:32	19.9	19.8	18.1	19.2
2409	2017-11-14 02:14:32	20.3	19.8	18.3	19.2
2410	2017-11-14 02:29:32	20.2	19.7	18.3	18.7
2411	2017-11-14 02:44:32	19.4	19.7	18	18.2
2412	2017-11-14 02:59:32	19.2	19.7	17.9	17.8
2413	2017-11-14 03:14:32	18.6	19.6	17.6	17.5
2414	2017-11-14 03:29:32	18.2	19.4	17.4	17.6
2415	2017-11-14 03:44:32	18.1	19.4	17.1	17.4
2416	2017-11-14 03:59:32	18	19.3	16.8	17.2
2417	2017-11-14 04:14:32	18.1	19.2	16.5	17.1
2418	2017-11-14 04:29:32	18.7	19.2	16.2	16.9
2419	2017-11-14 04:44:32	18.9	19	16.1	16.8
2420	2017-11-14 04:59:32	18.4	18.9	16	16.8
2421	2017-11-14 05:14:32	18.1	18.9	16	16.7
2422	2017-11-14 05:29:32	17.8	18.8	15.9	16.4
2423	2017-11-14 05:44:32	17.5	18.7	15.7	16.5
2424	2017-11-14 05:59:32	17.6	18.7	15.7	16.7
2425	2017-11-14 06:14:32	17.5	18.6	15.7	16.5
2426	2017-11-14 06:29:32	17.5	18.7	15.8	17.4
2427	2017-11-14 06:44:32	17.2	18.6	15.6	17.5
2428	2017-11-14 06:59:32	17	18.6	15.4	17.6
2429	2017-11-14 07:14:32	16.9	18.4	15.4	17.1

2430	2017-11-14 07:29:32	17.3	18.4	15.4	16.7
2431	2017-11-14 07:44:32	17.8	18.5	15.4	16.6
2432	2017-11-14 07:59:32	18	18.6	15.5	17
2433	2017-11-14 08:14:32	18.6	18.6	16	17.2
2434	2017-11-14 08:29:32	18.8	18.9	16.7	17.6
2435	2017-11-14 08:44:32	19.2	19.2	17.4	18.2
2436	2017-11-14 08:59:32	19.8	19.2	18.2	19
2437	2017-11-14 09:14:32	20.5	19.4	19.2	19.5
2438	2017-11-14 09:29:32	21.3	19.7	20	20.1
2439	2017-11-14 09:44:32	22	20	20.7	20.5
2440	2017-11-14 09:59:32	22.3	20.3	21.5	20.9
2441	2017-11-14 10:14:32	22.6	20.5	22.2	21.3
2442	2017-11-14 10:29:32	23	20.8	22.6	21.7
2443	2017-11-14 10:44:32	23.2	20.9	23.1	22.3
2444	2017-11-14 10:59:32	23.3	20.9	23.5	22.9
2445	2017-11-14 11:14:32	23.5	21.1	23.6	23.2
2446	2017-11-14 11:29:32	23.5	21.2	23.5	22.6
2447	2017-11-14 11:44:32	23	21.1	22.8	22.8
2448	2017-11-14 11:59:32	23.5	21.2	22.8	23.2
2449	2017-11-14 12:14:32	22.8	21.5	23.3	22.3
2450	2017-11-14 12:29:32	22.4	21.6	23.1	22.3
2451	2017-11-14 12:44:32	23.5	21.7	23.3	23.5
2452	2017-11-14 12:59:32	23.9	21.6	22.9	23.1
2453	2017-11-14 13:14:32	23.8	21.7	23	23.5
2454	2017-11-14 13:29:32	24	21.7	22.7	23.6
2455	2017-11-14 13:44:32	24.2	21.9	22.8	22.9
2456	2017-11-14 13:59:32	23.8	22	22.9	22.7
2457	2017-11-14 14:14:32	23.6	22.1	23.3	22.8
2458	2017-11-14 14:29:32	24	22.2	23.5	23.1
2459	2017-11-14 14:44:32	24	22.2	23.3	23.1
2460	2017-11-14 14:59:32	24	22.2	23.1	23.2
2461	2017-11-14 15:14:32	24	22.2	22.9	23.3
2462	2017-11-14 15:29:32	23.7	22.2	22.6	23.1
2463	2017-11-14 15:44:32	23.6	22.1	22.3	22.9
2464	2017-11-14 15:59:32	23.4	21.9	22	22.2
2465	2017-11-14 16:14:32	22.8	21.7	21.5	22
2466	2017-11-14 16:29:32	22.6	21.7	21.2	22
2467	2017-11-14 16:44:32	22.4	21.7	21	21.9
2468	2017-11-14 16:59:32	22.2	21.6	20.8	21.5
2469	2017-11-14 17:14:32	21.7	21.6	20.4	21.1
2470	2017-11-14 17:29:32	21.4	21.5	20	20.8
2471	2017-11-14 17:44:32	20.9	21.3	19.5	20.3

2472	2017-11-14 17:59:32	20.5	21	19.1	19.8
2473	2017-11-14 18:14:32	20.5	20.9	18.7	19.2
2474	2017-11-14 18:29:32	20.3	20.9	18.5	18.7
2475	2017-11-14 18:44:32	19.8	20.6	18.1	18.4
2476	2017-11-14 18:59:32	19.6	20.4	17.8	18.3
2477	2017-11-14 19:14:32	19.5	20.3	17.5	18
2478	2017-11-14 19:29:32	19.2	20.3	17.4	17.8
2479	2017-11-14 19:44:32	19.2	20.3	17.1	17.7
2480	2017-11-14 19:59:32	19.2	20.1	16.9	17.6
2481	2017-11-14 20:14:32	19	19.9	16.7	17.4
2482	2017-11-14 20:29:32	18.8	19.8	16.6	17.2
2483	2017-11-14 20:44:32	18.6	19.6	16.3	17.1
2484	2017-11-14 20:59:32	18.7	19.5	16	17.2
2485	2017-11-14 21:14:32	18.6	19.4	16	17
2486	2017-11-14 21:29:32	18.6	19.4	15.9	17.1
2487	2017-11-14 21:44:32	18.7	19.4	15.7	17.3
2488	2017-11-14 21:59:32	18.8	19.2	15.7	17.4
2489	2017-11-14 22:14:32	18.7	19.2	15.6	17.4
2490	2017-11-14 22:29:32	18.6	19.2	16	17.1
2491	2017-11-14 22:44:32	18.5	19.2	15.9	17.1
2492	2017-11-14 22:59:32	18.5	19.3	15.9	16.9
2493	2017-11-14 23:14:32	18.6	19.2	15.9	16.9
2494	2017-11-14 23:29:32	18.5	19.1	15.9	17
2495	2017-11-14 23:44:32	18.4	19	15.7	17
2496	2017-11-14 23:59:32	18.3	18.9	15.7	17
2497	2017-11-15 00:14:32	18.1	18.8	15.6	16.9
2498	2017-11-15 00:29:32	18.2	18.7	15.4	16.7
2499	2017-11-15 00:44:32	18.1	18.6	15.3	16.7
2500	2017-11-15 00:59:32	18	18.6	15.4	16.6
2501	2017-11-15 01:14:32	18	18.6	15.2	16.5
2502	2017-11-15 01:29:32	18	18.5	15.2	16.5
2503	2017-11-15 01:44:32	17.8	18.5	15.1	16.5
2504	2017-11-15 01:59:32	17.8	18.5	15.1	16.4
2505	2017-11-15 02:14:32	17.4	18.3	15	16.2
2506	2017-11-15 02:29:32	17.5	18.3	14.9	16.3
2507	2017-11-15 02:44:32	17.5	18.2	14.9	16.3
2508	2017-11-15 02:59:32	17.3	18.2	14.8	16.3
2509	2017-11-15 03:14:32	17.2	18.1	14.7	16.1
2510	2017-11-15 03:29:32	17.1	18	14.7	16.1
2511	2017-11-15 03:44:32	17.1	17.9	14.6	16.1
2512	2017-11-15 03:59:32	17	17.9	14.5	16
2513	2017-11-15 04:14:32	16.9	17.8	14.4	16

2514	2017-11-15 04:29:32	16.8	17.8	14.3	16
2515	2017-11-15 04:44:32	17	17.8	14.3	15.9
2516	2017-11-15 04:59:32	17.1	17.8	14.2	16
2517	2017-11-15 05:14:32	17	17.8	14.3	16.2
2518	2017-11-15 05:29:32	17	17.8	14.3	16.4
2519	2017-11-15 05:44:32	17.3	17.8	14.3	16.5
2520	2017-11-15 05:59:32	17.3	17.8	14.5	16.7
2521	2017-11-15 06:14:32	17.1	17.8	14.5	16.7
2522	2017-11-15 06:29:32	17.3	17.8	14.5	16.7
2523	2017-11-15 06:44:32	17.2	17.8	14.5	16.7
2524	2017-11-15 06:59:32	17.1	17.7	14.5	16.7
2525	2017-11-15 07:14:32	17.2	17.7	14.6	16.7
2526	2017-11-15 07:29:32	17.3	17.7	14.6	16.6
2527	2017-11-15 07:44:32	17.4	17.6	14.7	16.7
2528	2017-11-15 07:59:32	17.4	17.7	14.8	16.7
2529	2017-11-15 08:14:32	17.6	17.8	15.2	17
2530	2017-11-15 08:29:32	18.1	17.9	15.6	17.3
2531	2017-11-15 08:44:32	18.8	18	16.3	17.7
2532	2017-11-15 08:59:32	19.4	18.2	17.1	18.3
2533	2017-11-15 09:14:32	20	18.4	18	18.9
2534	2017-11-15 09:29:32	20.9	18.7	18.8	19.4
2535	2017-11-15 09:44:32	21.5	19	19.8	19.8
2536	2017-11-15 09:59:32	21.9	19.2	20.5	20.3
2537	2017-11-15 10:14:32	22.2	19.3	21.1	20.6
2538	2017-11-15 10:29:32	22.2	19.5	21.7	21
2539	2017-11-15 10:44:32	22.3	19.8	22.2	21.6
2540	2017-11-15 10:59:32	22.8	20	22.7	22.2
2541	2017-11-15 11:14:32	22.2	20.1	22.8	22.6
2542	2017-11-15 11:29:32	22.3	20.3	23.3	22.7
2543	2017-11-15 11:44:32	22.5	20.4	23.8	22.9
2544	2017-11-15 11:59:32	22.8	20.6	23.9	23.1
2545	2017-11-15 12:14:32	22.6	20.9	23.8	23.2
2546	2017-11-15 12:29:32	22.9	20.9	23.8	23.1
2547	2017-11-15 12:44:32	23.4	21	23.7	23.4
2548	2017-11-15 12:59:32	23.6	21.3	23.8	23.4
2549	2017-11-15 13:14:32	22.9	21.4	23.8	23.4
2550	2017-11-15 13:29:32	22.9	21.5	23.6	23.2
2551	2017-11-15 13:44:32	22.7	21.6	23.6	23
2552	2017-11-15 13:59:32	22.9	21.6	23.5	22.9
2553	2017-11-15 14:14:32	22.4	21.7	23.5	22.9
2554	2017-11-15 14:29:32	22.4	21.7	23.4	22.8
2555	2017-11-15 14:44:32	23	21.7	23.2	22.8

2556	2017-11-15 14:59:32	22.5	21.7	23	22.8
2557	2017-11-15 15:14:32	23.4	21.7	22.8	22.9
2558	2017-11-15 15:29:32	22.5	21.7	22.4	22.9
2559	2017-11-15 15:44:32	22.5	21.6	22.2	22.9
2560	2017-11-15 15:59:32	22.1	21.6	21.9	22.6
2561	2017-11-15 16:14:32	21.9	21.5	21.7	22.2
2562	2017-11-15 16:29:32	21.8	21.5	21.5	22
2563	2017-11-15 16:44:32	22	21.3	21.2	21.7
2564	2017-11-15 16:59:32	21.7	21.3	20.9	21.4
2565	2017-11-15 17:14:32	21.4	21.2	20.6	21
2566	2017-11-15 17:29:32	21.1	21.1	20.3	20.5
2567	2017-11-15 17:44:32	20.7	21	19.9	20.1
2568	2017-11-15 17:59:32	20.3	20.9	19.5	19.6
2569	2017-11-15 18:14:32	20	20.9	19.2	19.2
2570	2017-11-15 18:29:32	19.8	20.6	18.8	18.8
2571	2017-11-15 18:44:32	19.5	20.5	18.6	18.6
2572	2017-11-15 18:59:32	19.2	20.3	18.3	18.5
2573	2017-11-15 19:14:32	19.1	20.3	18	18.3
2574	2017-11-15 19:29:32	19.2	20.2	17.7	18.1
2575	2017-11-15 19:44:32	19.1	20.1	17.5	18
2576	2017-11-15 19:59:32	19.2	20	17.3	18
2577	2017-11-15 20:14:32	19	19.9	17.1	18
2578	2017-11-15 20:29:32	19	19.8	16.9	18
2579	2017-11-15 20:44:32	19	19.8	16.7	17.9
2580	2017-11-15 20:59:32	19	19.8	16.7	17.9
2581	2017-11-15 21:14:32	19	19.8	16.6	17.8
2582	2017-11-15 21:29:32	18.9	19.7	16.5	17.8
2583	2017-11-15 21:44:32	18.8	19.6	16.4	17.8
2584	2017-11-15 21:59:32	18.9	19.6	16.3	17.8
2585	2017-11-15 22:14:32	18.8	19.5	16.2	17.7
2586	2017-11-15 22:29:32	18.8	19.4	16.2	17.6
2587	2017-11-15 22:44:32	18.6	19.4	16	17.5
2588	2017-11-15 22:59:32	18.6	19.3	16	17.5
2589	2017-11-15 23:14:32	18.5	19.2	15.9	17.4
2590	2017-11-15 23:29:32	18.3	19.1	15.8	17.3
2591	2017-11-15 23:44:32	18.2	19	15.7	17.2
2592	2017-11-15 23:59:32	18	18.9	15.5	17.1
2593	2017-11-16 00:14:32	18	18.8	15.4	17
2594	2017-11-16 00:29:32	18	18.8	15.4	16.9
2595	2017-11-16 00:44:32	17.9	18.8	15.4	16.8
2596	2017-11-16 00:59:32	17.9	18.8	15.3	16.8
2597	2017-11-16 01:14:32	17.6	18.7	15.2	16.7

2598	2017-11-16 01:29:32	17.4	18.6	15.1	16.3
2599	2017-11-16 01:44:32	17.3	18.4	15	16
2600	2017-11-16 01:59:32	17	18.3	14.8	15.8
2601	2017-11-16 02:14:32	16.8	18.2	14.7	15.5
2602	2017-11-16 02:29:32	16.6	18	14.5	15.4
2603	2017-11-16 02:44:32	16.4	18	14.3	15.4
2604	2017-11-16 02:59:32	16.4	17.9	14.2	15.3
2605	2017-11-16 03:14:32	16.4	17.9	14	15.2
2606	2017-11-16 03:29:32	16.1	17.8	13.9	15.1
2607	2017-11-16 03:44:32	16	17.6	13.7	15
2608	2017-11-16 03:59:32	15.9	17.5	13.6	14.9
2609	2017-11-16 04:14:32	15.7	17.4	13.4	14.8
2610	2017-11-16 04:29:32	15.5	17.4	13.4	14.8
2611	2017-11-16 04:44:32	15.4	17.3	13.3	14.8
2612	2017-11-16 04:59:32	15.4	17.2	13.2	14.7
2613	2017-11-16 05:14:32	15.4	17.2	13.1	14.7
2614	2017-11-16 05:29:32	15.3	17.1	13	14.7
2615	2017-11-16 05:44:32	15.3	17	13	14.7
2616	2017-11-16 05:59:32	15.3	17	13	14.6
2617	2017-11-16 06:14:32	15.4	17	13	14.7
2618	2017-11-16 06:29:32	15.7	17	13	14.7
2619	2017-11-16 06:44:32	15.7	16.9	13.1	14.7
2620	2017-11-16 06:59:32	15.4	17	13	14.7
2621	2017-11-16 07:14:32	15.4	16.9	13	14.7
2622	2017-11-16 07:29:32	15.8	16.9	13	14.7
2623	2017-11-16 07:44:32	15.7	16.9	13.1	14.7
2624	2017-11-16 07:59:32	15.7	16.9	13.3	14.8
2625	2017-11-16 08:14:32	16	17	13.7	15
2626	2017-11-16 08:29:32	16.6	17.1	14.4	15.5
2627	2017-11-16 08:44:32	17.4	17.3	15.3	16.1
2628	2017-11-16 08:59:32	18	17.4	16.2	16.8
2629	2017-11-16 09:14:32	19.2	17.7	17.4	17.5
2630	2017-11-16 09:29:32	20.3	18	18.5	18.3
2631	2017-11-16 09:44:32	21.2	18.3	19.5	18.8
2632	2017-11-16 09:59:32	21.5	18.5	20.4	19.4
2633	2017-11-16 10:14:32	21.5	18.8	21.1	20
2634	2017-11-16 10:29:32	21.5	19.1	21.5	20.5
2635	2017-11-16 10:44:32	21.5	19.2	22.1	21.2
2636	2017-11-16 10:59:32	21.7	19.5	22.5	22
2637	2017-11-16 11:14:32	21.9	19.7	22.8	22.4
2638	2017-11-16 11:29:32	22	19.8	23.1	22.6
2639	2017-11-16 11:44:32	22	20	23.5	22.6

2640	2017-11-16 11:59:32	22	20.2	23.5	22.7
2641	2017-11-16 12:14:32	22.1	20.3	23.2	22.9
2642	2017-11-16 12:29:32	22.2	20.6	23.3	23
2643	2017-11-16 12:44:32	22	20.8	23.1	23.1
2644	2017-11-16 12:59:32	22.2	20.9	23.2	23.2
2645	2017-11-16 13:14:32	22.4	21.1	23.1	23
2646	2017-11-16 13:29:32	22.3	21.2	23	22.9
2647	2017-11-16 13:44:32	22.3	21.3	23.1	23
2648	2017-11-16 13:59:32	22.4	21.4	23.2	22.9
2649	2017-11-16 14:14:32	22.4	21.5	23.1	22.9
2650	2017-11-16 14:29:32	22.3	21.5	22.9	22.7
2651	2017-11-16 14:44:32	22.3	21.6	22.9	22.7
2652	2017-11-16 14:59:32	22.5	21.6	22.6	22.6
2653	2017-11-16 15:14:32	22.3	21.6	22.2	22.4
2654	2017-11-16 15:29:32	22.5	21.6	22.1	22.8
2655	2017-11-16 15:44:32	22.3	21.6	21.9	22.7
2656	2017-11-16 15:59:32	22.2	21.6	21.8	22.5
2657	2017-11-16 16:14:32	21.9	21.5	21.6	22.3
2658	2017-11-16 16:29:32	21.7	21.4	21.5	22
2659	2017-11-16 16:44:32	21.5	21.3	21.4	21.7
2660	2017-11-16 16:59:32	21.2	21.1	21.2	21.4
2661	2017-11-16 17:14:32	20.9	21	21	21.1
2662	2017-11-16 17:29:32	20.8	20.9	20.8	20.6
2663	2017-11-16 17:44:32	20.5	20.7	20.3	20.2
2664	2017-11-16 17:59:32	20.3	20.5	19.9	19.8
2665	2017-11-16 18:14:32	20.1	20.4	19.6	19.2
2666	2017-11-16 18:29:32	19.8	20.3	19.1	18.9
2667	2017-11-16 18:44:32	19.5	20.2	18.6	18.6
2668	2017-11-16 18:59:32	19.2	20.1	18.3	18.4
2669	2017-11-16 19:14:32	18.9	20	18	18.1
2670	2017-11-16 19:29:32	18.8	19.9	17.8	18
2671	2017-11-16 19:44:32	18.9	19.8	17.4	17.8
2672	2017-11-16 19:59:32	18.6	19.6	17.4	17.6
2673	2017-11-16 20:14:32	18.6	19.5	17.3	17.6
2674	2017-11-16 20:29:32	18.5	19.5	17	17.4
2675	2017-11-16 20:44:32	18.2	19.4	16.7	17.2
2676	2017-11-16 20:59:32	18	19.2	16.6	17.1
2677	2017-11-16 21:14:32	18	19.2	16.5	17
2678	2017-11-16 21:29:32	18	19.2	16.4	16.9
2679	2017-11-16 21:44:32	18	19.1	16.2	16.8
2680	2017-11-16 21:59:32	18	19.1	16	16.8
2681	2017-11-16 22:14:32	18.1	19	16	16.9

2682	2017-11-16 22:29:32	18.2	19	16	16.9
2683	2017-11-16 22:44:32	18.2	19	16	16.9
2684	2017-11-16 22:59:32	18.1	18.9	15.9	16.8
2685	2017-11-16 23:14:32	18.1	18.8	15.8	16.8
2686	2017-11-16 23:29:32	18.1	18.7	15.7	16.8
2687	2017-11-16 23:44:32	18.1	18.7	15.7	16.7
2688	2017-11-16 23:59:32	18.1	18.6	15.6	16.6
2689	2017-11-17 00:14:32	17.9	18.6	15.5	16.5
2690	2017-11-17 00:29:32	17.8	18.5	15.4	16.4
2691	2017-11-17 00:44:32	17.8	18.5	15.4	16.5
2692	2017-11-17 00:59:32	17.8	18.4	15.4	16.4
2693	2017-11-17 01:14:32	17.6	18.3	15.2	16.3
2694	2017-11-17 01:29:32	17.4	18.2	15.1	16.1
2695	2017-11-17 01:44:32	17.2	18.1	15	16
2696	2017-11-17 01:59:32	17.1	18.1	14.8	15.9
2697	2017-11-17 02:14:32	16.9	18	14.8	16
2698	2017-11-17 02:29:32	16.9	17.9	14.7	15.7
2699	2017-11-17 02:44:32	16.6	17.9	14.6	15.5
2700	2017-11-17 02:59:32	16.4	17.8	14.4	15.4
2701	2017-11-17 03:14:32	16.3	17.6	14.3	15.4
2702	2017-11-17 03:29:32	16.1	17.6	14.2	15.4
2703	2017-11-17 03:44:32	16.1	17.4	14.1	15.3
2704	2017-11-17 03:59:32	16.1	17.4	14	15.2
2705	2017-11-17 04:14:32	16	17.4	14	15
2706	2017-11-17 04:29:32	15.9	17.3	13.9	14.8
2707	2017-11-17 04:44:32	15.7	17.2	13.8	14.7
2708	2017-11-17 04:59:32	15.6	17.2	13.7	14.7
2709	2017-11-17 05:14:32	15.4	17.1	13.7	14.7
2710	2017-11-17 05:29:32	15.4	17	13.5	14.6
2711	2017-11-17 05:44:32	15.4	16.9	13.4	14.6
2712	2017-11-17 05:59:32	15.3	16.8	13.4	14.5
2713	2017-11-17 06:14:32	15.2	16.8	13.2	14.4
2714	2017-11-17 06:29:32	15	16.7	13.1	14.4
2715	2017-11-17 06:44:32	14.9	16.7	13	14.3
2716	2017-11-17 06:59:32	14.7	16.6	12.8	14.1
2717	2017-11-17 07:14:32	14.7	16.5	12.7	14.1
2718	2017-11-17 07:29:32	14.7	16.5	12.7	14.2
2719	2017-11-17 07:44:32	14.7	16.5	12.7	14.3
2720	2017-11-17 07:59:32	15.1	16.5	12.7	14.5
2721	2017-11-17 08:14:32	15.5	16.6	13.2	14.8
2722	2017-11-17 08:29:32	16	16.7	13.9	15.2
2723	2017-11-17 08:44:32	16.7	16.9	14.7	16

2724	2017-11-17 08:59:32	17.6	17.3	15.7	17
2725	2017-11-17 09:14:32	18.8	17.6	16.9	17.7
2726	2017-11-17 09:29:32	20.2	17.9	18.1	18.3
2727	2017-11-17 09:44:32	21	18.1	19.6	19.1
2728	2017-11-17 09:59:32	21.5	18.4	20.5	19.9
2729	2017-11-17 10:14:32	21.7	18.6	21	20.4
2730	2017-11-17 10:29:32	22	18.9	21.7	20.9
2731	2017-11-17 10:44:32	22	19.1	22.2	21.6
2732	2017-11-17 10:59:32	22	19.3	22.6	22
2733	2017-11-17 11:14:32	21.8	19.5	22.8	21.4
2734	2017-11-17 11:29:32	21.9	19.6	22.9	21.5
2735	2017-11-17 11:44:32	22.1	19.8	23.3	22.1
2736	2017-11-17 11:59:32	22.2	20	23.3	22.6
2737	2017-11-17 12:14:32	22.2	20.3	23.4	22.5
2738	2017-11-17 12:29:32	22.3	20.4	23.4	22.7
2739	2017-11-17 12:44:32	22.1	20.6	23.5	23
2740	2017-11-17 12:59:32	22.4	20.8	23.3	23.2
2741	2017-11-17 13:14:32	22.6	20.9	23.3	23.5
2742	2017-11-17 13:29:32	22.7	21.1	23.1	23.3
2743	2017-11-17 13:44:32	22.8	21.3	22.9	23.2
2744	2017-11-17 13:59:32	22.7	21.4	22.9	23.2
2745	2017-11-17 14:14:32	22.6	21.5	23	22.9
2746	2017-11-17 14:29:32	22.7	21.5	22.8	22.9
2747	2017-11-17 14:44:32	22.7	21.6	22.8	22.9
2748	2017-11-17 14:59:32	22.6	21.7	22.5	22.9
2749	2017-11-17 15:14:32	22.5	21.7	22.4	22.9
2750	2017-11-17 15:29:32	22.7	21.8	22.2	22.9
2751	2017-11-17 15:44:32	22.5	21.7	22.1	22.8
2752	2017-11-17 15:59:32	22.5	21.7	22	22.7
2753	2017-11-17 16:14:32	22.3	21.6	21.9	22.5
2754	2017-11-17 16:29:32	22.2	21.5	21.9	22.3
2755	2017-11-17 16:44:32	21.8	21.4	21.7	22.2
2756	2017-11-17 16:59:32	21.5	21.3	21.5	21.9
2757	2017-11-17 17:14:32	21.3	21.2	21.3	21.5
2758	2017-11-17 17:29:32	21.1	21	21	20.8
2759	2017-11-17 17:44:32	20.7	20.9	20.5	20.3
2760	2017-11-17 17:59:32	20.4	20.7	20	19.7
2761	2017-11-17 18:14:32	19.9	20.5	19.5	19.2
2762	2017-11-17 18:29:32	19.7	20.3	19	18.6
2763	2017-11-17 18:44:32	19.3	20.1	18.3	18.3
2764	2017-11-17 18:59:32	19.1	19.9	17.8	18
2765	2017-11-17 19:14:32	18.7	19.8	17.3	17.5

2766	2017-11-17 19:29:32	18.3	19.8	16.8	17.3
2767	2017-11-17 19:44:32	18	19.6	16.4	17
2768	2017-11-17 19:59:32	18	19.5	16.1	16.8
2769	2017-11-17 20:14:32	17.8	19.4	15.8	16.6
2770	2017-11-17 20:29:32	17.5	19.2	15.4	16.2
2771	2017-11-17 20:44:32	17.5	19.2	15.2	16
2772	2017-11-17 20:59:32	17.3	19.1	14.9	15.6
2773	2017-11-17 21:14:32	17	19	14.7	15.5
2774	2017-11-17 21:29:32	16.8	18.9	14.7	15.2
2775	2017-11-17 21:44:32	16.6	18.8	14.5	14.9
2776	2017-11-17 21:59:32	16.5	18.7	14.3	14.8
2777	2017-11-17 22:14:32	16.3	18.6	14.1	14.7
2778	2017-11-17 22:29:32	16.2	18.5	14	14.8
2779	2017-11-17 22:44:32	16.2	18.5	13.9	14.8
2780	2017-11-17 22:59:32	16.1	18.4	14	14.8
2781	2017-11-17 23:14:32	16	18.2	13.9	14.8
2782	2017-11-17 23:29:32	15.9	18	13.7	14.7
2783	2017-11-17 23:44:32	15.8	17.9	13.6	14.7
2784	2017-11-17 23:59:32	15.7	17.9	13.6	14.8
2785	2017-11-18 00:14:32	15.8	17.9	13.5	14.8
2786	2017-11-18 00:29:32	15.8	17.8	13.4	14.8
2787	2017-11-18 00:44:32	15.9	17.7	13.4	15
2788	2017-11-18 00:59:32	15.9	17.7	13.7	15.1
2789	2017-11-18 01:14:32	16.7	17.8	13.8	15.1
2790	2017-11-18 01:29:32	17	17.7	13.8	15.2
2791	2017-11-18 01:44:32	17.1	17.8	14	15.3
2792	2017-11-18 01:59:32	16.7	17.7	14.1	15.3
2793	2017-11-18 02:14:32	16.4	17.7	14.1	15.4
2794	2017-11-18 02:29:32	16.4	17.7	14	15.5
2795	2017-11-18 02:44:32	16.4	17.7	14.2	15.6
2796	2017-11-18 02:59:32	16.4	17.7	14.2	15.7
2797	2017-11-18 03:14:32	16.4	17.7	14.4	15.8
2798	2017-11-18 03:29:32	16.4	17.7	14.3	15.9
2799	2017-11-18 03:44:32	16.3	17.7	14.3	16
2800	2017-11-18 03:59:32	16.3	17.7	14.6	16
2801	2017-11-18 04:14:32	16.3	17.8	14.7	16
2802	2017-11-18 04:29:32	16.3	17.7	14.8	16
2803	2017-11-18 04:44:32	16.3	17.7	14.8	16
2804	2017-11-18 04:59:32	16.3	17.7	14.8	16.2
2805	2017-11-18 05:14:32	16.3	17.7	14.9	16.2
2806	2017-11-18 05:29:32	16.4	17.7	15	16.4
2807	2017-11-18 05:44:32	16.6	17.7	15.1	16.7

2808	2017-11-18 05:59:32	16.7	17.8	15.1	16.7
2809	2017-11-18 06:14:32	16.6	17.8	15	16.9
2810	2017-11-18 06:29:32	16.6	17.8	15	16.9
2811	2017-11-18 06:44:32	16.5	17.8	15.1	16.7
2812	2017-11-18 06:59:32	16.5	17.8	15.1	16.7
2813	2017-11-18 07:14:32	16.5	17.8	15.1	16.6
2814	2017-11-18 07:29:32	16.4	17.8	15.1	16.5
2815	2017-11-18 07:44:32	16.5	17.7	15.1	16.7
2816	2017-11-18 07:59:32	16.7	17.7	15.2	16.9
2817	2017-11-18 08:14:32	17.1	17.8	15.4	17.2
2818	2017-11-18 08:29:32	17.5	17.9	15.8	17.8
2819	2017-11-18 08:44:32	18	18	16.3	18.3
2820	2017-11-18 08:59:32	18.6	18.2	16.8	18.7
2821	2017-11-18 09:14:32	19.1	18.4	17.4	19.2
2822	2017-11-18 09:29:32	19.6	18.6	18	19.5
2823	2017-11-18 09:44:32	20.6	18.8	19.3	20.2
2824	2017-11-18 09:59:32	20.9	19.1	20.1	20.3
2825	2017-11-18 10:14:32	22	19.3	21.4	21
2826	2017-11-18 10:29:32	22.2	19.8	21.9	21.5
2827	2017-11-18 10:44:32	22.5	20.1	22.5	22.2
2828	2017-11-18 10:59:32	22.7	20.3	22.8	22.9
2829	2017-11-18 11:14:32	22.8	20.5	23.2	23.1
2830	2017-11-18 11:29:32	23	20.9	23.5	23.4
2831	2017-11-18 11:44:32	23.1	20.9	23.5	23.7
2832	2017-11-18 11:59:32	23.3	21.1	23.7	23.9
2833	2017-11-18 12:14:32	23.2	21.3	23.7	24
2834	2017-11-18 12:29:32	23.3	21.5	23.8	24.1
2835	2017-11-18 12:44:32	23.4	21.5	23.9	24.2
2836	2017-11-18 12:59:32	23.4	21.6	24	24.3
2837	2017-11-18 13:14:32	23	21.8	23.5	23.6
2838	2017-11-18 13:29:32	22.9	21.7	23.2	23.4
2839	2017-11-18 13:44:32	23	21.9	23.4	23.5
2840	2017-11-18 13:59:32	22.9	21.9	23.2	23.4
2841	2017-11-18 14:14:32	23.3	22	23.3	23.9
2842	2017-11-18 14:29:32	23.2	22.2	23.3	23.5
2843	2017-11-18 14:44:32	23.1	22.2	23.2	23.4
2844	2017-11-18 14:59:32	22.7	22.1	22.9	23
2845	2017-11-18 15:14:32	22.8	22	22.8	23.1
2846	2017-11-18 15:29:32	23.1	22.2	22.8	23.5
2847	2017-11-18 15:44:32	22.8	22.2	22.7	23.2
2848	2017-11-18 15:59:32	22.5	22.1	22.4	22.8
2849	2017-11-18 16:14:32	22.5	22	22.4	22.8

2850	2017-11-18 16:29:32	22.2	22	22.3	22.6
2851	2017-11-18 16:44:32	21.8	21.8	22.1	22.1
2852	2017-11-18 16:59:32	21.6	21.6	21.8	21.9
2853	2017-11-18 17:14:32	21.6	21.6	21.7	21.7
2854	2017-11-18 17:29:32	21.5	21.6	21.5	21.4
2855	2017-11-18 17:44:32	21.1	21.5	21.1	20.9
2856	2017-11-18 17:59:32	20.8	21.3	20.7	20.7
2857	2017-11-18 18:14:32	20.6	21.1	20.3	20.4
2858	2017-11-18 18:29:32	20.5	20.9	20	20.3
2859	2017-11-18 18:44:32	20.3	20.9	19.7	20.2
2860	2017-11-18 18:59:32	20.2	20.8	19.5	20
2861	2017-11-18 19:14:32	20.2	20.8	19.2	19.9
2862	2017-11-18 19:29:32	20.2	20.7	19.2	19.7
2863	2017-11-18 19:44:32	19.9	20.6	19.1	19.6
2864	2017-11-18 19:59:32	19.9	20.6	19.4	19.5
2865	2017-11-18 20:14:32	19.8	20.5	19.1	19.4
2866	2017-11-18 20:29:32	19.6	20.4	18.6	19
2867	2017-11-18 20:44:32	19.3	20.3	18.2	18.8
2868	2017-11-18 20:59:32	19.2	20.2	17.9	18.9
2869	2017-11-18 21:14:32	19.2	20.2	17.7	19.2
2870	2017-11-18 21:29:32	19.3	20.2	17.6	19.1
2871	2017-11-18 21:44:32	19.2	20.1	17.4	18.9
2872	2017-11-18 21:59:32	19	20	17.3	18.8
2873	2017-11-18 22:14:32	19	20	17.1	18.8
2874	2017-11-18 22:29:32	19	20	17	18.8
2875	2017-11-18 22:44:32	18.9	19.9	16.9	18.8
2876	2017-11-18 22:59:32	18.7	19.8	16.8	18.5
2877	2017-11-18 23:14:32	18.7	19.8	16.7	18.4
2878	2017-11-18 23:29:32	18.7	19.8	16.8	18.4
2879	2017-11-18 23:44:32	18.7	19.8	16.9	18.7
2880	2017-11-18 23:59:32	18.6	19.8	16.9	18.6
2881	2017-11-19 00:14:32	18.4	19.7	16.8	18.4
2882	2017-11-19 00:29:32	18.4	19.6	16.7	18.4
2883	2017-11-19 00:44:32	18.2	19.5	16.7	18.3
2884	2017-11-19 00:59:32	18.1	19.5	16.7	18.1
2885	2017-11-19 01:14:32	18.1	19.4	16.7	18
2886	2017-11-19 01:29:32	18	19.3	16.5	17.8
2887	2017-11-19 01:44:32	18	19.2	16.4	17.7
2888	2017-11-19 01:59:32	17.9	19.2	16.3	17.6
2889	2017-11-19 02:14:32	17.9	19.2	16.3	17.6
2890	2017-11-19 02:29:32	17.8	19.2	16.2	17.5
2891	2017-11-19 02:44:32	17.7	19.1	16.2	17.4

2892	2017-11-19 02:59:32	17.5	19	16.2	17.5
2893	2017-11-19 03:14:32	17.6	19	16	17.4
2894	2017-11-19 03:29:32	17.5	19	16	17.4
2895	2017-11-19 03:44:32	17.4	18.9	15.9	17.1
2896	2017-11-19 03:59:32	17.2	18.8	15.7	16.9
2897	2017-11-19 04:14:32	17.2	18.7	15.5	16.7
2898	2017-11-19 04:29:32	17.4	18.6	15.5	16.7
2899	2017-11-19 04:44:32	17.2	18.7	15.4	16.8
2900	2017-11-19 04:59:32	17.1	18.6	15.3	16.9
2901	2017-11-19 05:14:32	17	18.5	15.1	16.7
2902	2017-11-19 05:29:32	17.1	18.4	15.1	16.6
2903	2017-11-19 05:44:32	17.2	18.3	15	16.5
2904	2017-11-19 05:59:32	17.3	18.3	14.9	16.4
2905	2017-11-19 06:14:32	17.2	18.3	14.9	16.6
2906	2017-11-19 06:29:32	16.9	18.2	14.9	16.5
2907	2017-11-19 06:44:32	16.7	18.2	14.8	16.1
2908	2017-11-19 06:59:32	16.7	18.2	14.8	16.2
2909	2017-11-19 07:14:32	16.7	18.2	14.8	16.3
2910	2017-11-19 07:29:32	16.9	18.3	14.9	16.7
2911	2017-11-19 07:44:32	17.2	18.3	15.1	16.8
2912	2017-11-19 07:59:32	17.3	18.4	15.2	16.8
2913	2017-11-19 08:14:32	17.7	18.6	15.4	17.7
2914	2017-11-19 08:29:32	18.1	18.9	15.7	18.3
2915	2017-11-19 08:44:32	18.3	19.1	16.3	18.5
2916	2017-11-19 08:59:32	18.8	19.2	17	18.6
2917	2017-11-19 09:14:32	19.2	19.3	17.9	18.8
2918	2017-11-19 09:29:32	19.4	19.6	19	19.1
2919	2017-11-19 09:44:32	19.6	19.8	19.6	19.4
2920	2017-11-19 09:59:32	20.6	19.8	20.4	19.8
2921	2017-11-19 10:14:32	21.4	20.2	21	20.5
2922	2017-11-19 10:29:32	21.9	20.3	21.5	21
2923	2017-11-19 10:44:32	22.2	20.5	22.1	21.7
2924	2017-11-19 10:59:32	22.3	20.7	21.9	22.2
2925	2017-11-19 11:14:32	22.6	20.8	22.3	22.6
2926	2017-11-19 11:29:32	22.9	21	22.5	23.1
2927	2017-11-19 11:44:32	23	21.2	22.8	23.2
2928	2017-11-19 11:59:32	23.2	21.4	22.2	23.2
2929	2017-11-19 12:14:32	23.3	21.5	22.4	23.8
2930	2017-11-19 12:29:32	23.4	21.6	23.1	23.8
2931	2017-11-19 12:44:32	23.3	21.7	23.5	23.8
2932	2017-11-19 12:59:32	23.2	21.7	23.5	23.8
2933	2017-11-19 13:14:32	23.3	21.7	23.5	23.5

2934	2017-11-19 13:29:32	23.2	21.7	23.5	23.5
2935	2017-11-19 13:44:32	23.3	21.8	23.6	23.3
2936	2017-11-19 13:59:32	23.3	21.8	23.5	23.2
2937	2017-11-19 14:14:32	23.3	21.8	23.5	22.8
2938	2017-11-19 14:29:32	23.3	21.8	23.4	22.7
2939	2017-11-19 14:44:32	23.1	21.8	23.1	22.8
2940	2017-11-19 14:59:32	23.3	21.8	22.9	22.7
2941	2017-11-19 15:14:32	23.1	21.8	22.3	22.7
2942	2017-11-19 15:29:32	23.1	21.7	22.2	22.7
2943	2017-11-19 15:44:32	23	21.7	21.9	22.5
2944	2017-11-19 15:59:32	22.8	21.7	21.7	22.4
2945	2017-11-19 16:14:32	22.5	21.7	21.5	22.2
2946	2017-11-19 16:29:32	22.2	21.5	21.4	21.8
2947	2017-11-19 16:44:32	21.8	21.5	21.1	21.5
2948	2017-11-19 16:59:32	21.3	21.3	20.9	21.2
2949	2017-11-19 17:14:32	20.9	21.1	20.6	20.6
2950	2017-11-19 17:29:32	20.5	20.9	20.3	20.2
2951	2017-11-19 17:44:32	20.3	20.8	20.1	19.9
2952	2017-11-19 17:59:32	20	20.7	19.8	19.6
2953	2017-11-19 18:14:32	19.8	20.6	19.4	19.3
2954	2017-11-19 18:29:32	19.6	20.4	18.7	19.2
2955	2017-11-19 18:44:32	19.5	20.3	18.5	19
2956	2017-11-19 18:59:32	19.4	20.1	18	18.9
2957	2017-11-19 19:14:32	19.2	20.1	17.7	18.6
2958	2017-11-19 19:29:32	18.9	20.1	17.4	18.1
2959	2017-11-19 19:44:32	18.7	19.9	17.1	18
2960	2017-11-19 19:59:32	18.6	19.9	16.8	18
2961	2017-11-19 20:14:32	18.4	19.9	17.2	17.9
2962	2017-11-19 20:29:32	18.2	19.8	17.5	17.9
2963	2017-11-19 20:44:32	18.3	19.8	17.2	17.6
2964	2017-11-19 20:59:32	18.1	19.7	16.5	17.1
2965	2017-11-19 21:14:32	18	19.4	16	16.7
2966	2017-11-19 21:29:32	17.9	19.1	15.4	16.4
2967	2017-11-19 21:44:32	17.6	18.9	15.3	16.3
2968	2017-11-19 21:59:32	17.3	18.6	14.9	16
2969	2017-11-19 22:14:32	16.9	18.4	14.6	15.7
2970	2017-11-19 22:29:32	16.7	18.3	14.2	15.5
2971	2017-11-19 22:44:32	16.7	18.1	14	15.4
2972	2017-11-19 22:59:32	16.5	18	14	15.4
2973	2017-11-19 23:14:32	16.4	18.1	13.8	15.4
2974	2017-11-19 23:29:32	16.4	18	13.7	15.2
2975	2017-11-19 23:44:32	16.1	17.8	13.7	15

2976	2017-11-19 23:59:32	16.2	17.7	13.6	14.8
2977	2017-11-20 00:14:32	16.2	17.6	13.6	14.8
2978	2017-11-20 00:29:32	16.1	17.6	13.6	14.9
2979	2017-11-20 00:44:32	16.1	17.6	13.5	14.9
2980	2017-11-20 00:59:32	16	17.5	13.4	14.8
2981	2017-11-20 01:14:32	15.9	17.5	13.7	14.8
2982	2017-11-20 01:29:32	16	17.4	13.8	14.9
2983	2017-11-20 01:44:32	15.9	17.4	13.7	14.8
2984	2017-11-20 01:59:32	15.8	17.3	13.5	14.8
2985	2017-11-20 02:14:32	15.6	17.3	13.8	14.7
2986	2017-11-20 02:29:32	15.5	17.2	13.5	14.7
2987	2017-11-20 02:44:32	15.6	17.2	13.4	14.8
2988	2017-11-20 02:59:32	15.6	17	13.4	14.8
2989	2017-11-20 03:14:32	15.6	16.9	13.4	14.7
2990	2017-11-20 03:29:32	15.4	16.9	13.2	14.6
2991	2017-11-20 03:44:32	15.3	16.8	13.2	14.5
2992	2017-11-20 03:59:32	15.3	16.7	13	14.5
2993	2017-11-20 04:14:32	15.1	16.7	13	14.5
2994	2017-11-20 04:29:32	15.2	16.7	13.1	14.5
2995	2017-11-20 04:44:32	15.4	16.7	13.2	14.6
2996	2017-11-20 04:59:32	15.5	16.7	13.4	14.7
2997	2017-11-20 05:14:32	15.5	16.8	13.5	14.8
2998	2017-11-20 05:29:32	15.4	16.9	13.5	14.9
2999	2017-11-20 05:44:32	15.4	16.9	13.7	15
3000	2017-11-20 05:59:32	15.4	16.8	13.9	14.9
3001	2017-11-20 06:14:32	15.4	16.8	13.9	14.9
3002	2017-11-20 06:29:32	15.3	16.8	13.9	15
3003	2017-11-20 06:44:32	15.4	16.8	14	15
3004	2017-11-20 06:59:32	15.2	16.8	14	15.1
3005	2017-11-20 07:14:32	15.3	16.8	14	15.6
3006	2017-11-20 07:29:32	15.5	16.9	14.1	16.2
3007	2017-11-20 07:44:32	17	17	15.2	16.3
3008	2017-11-20 07:59:32	18	17.1	15	16.3
3009	2017-11-20 08:14:32	18.3	17.3	16	16.5
3010	2017-11-20 08:29:32	18.6	17.4	16.3	16.9
3011	2017-11-20 08:44:32	18.7	17.6	17	17.6
3012	2017-11-20 08:59:32	18.9	17.8	17.8	18.2
3013	2017-11-20 09:14:32	19.3	18.2	18.9	18.6
3014	2017-11-20 09:29:32	19.4	18.5	19.2	18.8
3015	2017-11-20 09:44:32	19.4	18.6	19.1	19.1
3016	2017-11-20 09:59:32	19.2	18.7	19.1	19.2
3017	2017-11-20 10:14:32	19.2	18.8	18.8	19.1

3018	2017-11-20 10:29:32	19.5	18.9	19.2	19.6
3019	2017-11-20 10:44:32	19.4	19.2	19.8	19.5
3020	2017-11-20 10:59:32	19.1	19.1	19.7	19.1
3021	2017-11-20 11:14:32	19	18.9	19.3	19
3022	2017-11-20 11:29:32	19.8	18.9	19.8	20.1
3023	2017-11-20 11:44:32	19.4	18.8	19.7	19.9
3024	2017-11-20 11:59:32	19.3	19.2	20	19.9
3025	2017-11-20 12:14:32	19.5	19.5	20.3	20.6
3026	2017-11-20 12:29:32	19.8	19.5	20.3	20.9
3027	2017-11-20 12:44:32	19.8	19.8	20.9	20.6
3028	2017-11-20 12:59:32	19.3	19.8	20.5	20
3029	2017-11-20 13:14:32	19.1	19.6	20.3	19.6
3030	2017-11-20 13:29:32	19.2	19.4	19.9	19.8
3031	2017-11-20 13:44:32	19.3	19.4	19.9	20
3032	2017-11-20 13:59:32	19.9	19.7	20.2	20.3
3033	2017-11-20 14:14:32	19.6	19.7	20	20.2
3034	2017-11-20 14:29:32	19.3	19.6	20	20
3035	2017-11-20 14:44:32	19.5	19.5	19.7	20.2
3036	2017-11-20 14:59:32	19.1	19.4	19.4	19.6
3037	2017-11-20 15:14:32	19.2	19.3	19.2	19.4
3038	2017-11-20 15:29:32	16.8	19.4	19.2	18
3039	2017-11-20 15:44:32	17.4	18.2	17.7	17.1
3040	2017-11-20 15:59:32	17.1	17.8	17	16.9
3041	2017-11-20 16:14:32	17.4	17.4	16.5	17.2
3042	2017-11-20 16:29:32	16.8	17.3	16.1	16.5
3043	2017-11-20 16:44:32	16.9	17.2	15.9	16.7
3044	2017-11-20 16:59:32	16	17.1	15.5	16.7
3045	2017-11-20 17:14:32	16.1	17	15.5	16.5
3046	2017-11-20 17:29:32	16.2	16.9	15.6	16.5
3047	2017-11-20 17:44:32	16.2	16.8	15.6	16.3
3048	2017-11-20 17:59:32	15.9	16.5	15.3	16
3049	2017-11-20 18:14:32	15.8	16.3	15.1	15.7
3050	2017-11-20 18:29:32	15.7	16.2	14.8	15.4
3051	2017-11-20 18:44:32	15.5	16.1	14.7	15.3
3052	2017-11-20 18:59:32	15.4	16	14.5	15.2
3053	2017-11-20 19:14:32	15.3	15.8	14.3	14.9
3054	2017-11-20 19:29:32	15	15.9	14.2	15
3055	2017-11-20 19:44:32	15	15.9	14.1	14.7
3056	2017-11-20 19:59:32	14.7	15.8	14	14.7
3057	2017-11-20 20:14:32	14.7	15.7	13.9	14.4
3058	2017-11-20 20:29:32	14.7	15.7	13.9	14.3
3059	2017-11-20 20:44:32	14.7	15.6	13.9	14.3

3060	2017-11-20 20:59:32	14.6	15.7	13.9	14.4
3061	2017-11-20 21:14:32	14.7	15.8	13.8	14.4
3062	2017-11-20 21:29:32	14.8	15.9	14	14.2
3063	2017-11-20 21:44:32	14.7	15.9	13.9	14.5
3064	2017-11-20 21:59:32	14.5	15.8	13.9	14.8
3065	2017-11-20 22:14:32	14.7	15.7	13.9	15.1
3066	2017-11-20 22:29:32	14.7	15.7	13.9	15.4
3067	2017-11-20 22:44:32	15.3	15.7	13.9	15.5
3068	2017-11-20 22:59:32	15.4	15.9	13.9	15.6
3069	2017-11-20 23:14:32	15.2	16	14.1	15.5
3070	2017-11-20 23:29:32	15.4	16	14.3	15.4
3071	2017-11-20 23:44:32	15.1	16	14.2	15.4
3072	2017-11-20 23:59:32	14.8	15.9	14.2	15.1
3073	2017-11-21 00:14:32	14.7	15.9	13.9	14.7
3074	2017-11-21 00:29:32	14.8	16	13.7	14.7
3075	2017-11-21 00:44:32	15.1	16	13.6	14.5
3076	2017-11-21 00:59:32	15.2	16.2	13.5	15.1
3077	2017-11-21 01:14:32	15.4	16	13.9	15.3
3078	2017-11-21 01:29:32	15.3	16	13.9	15.4
3079	2017-11-21 01:44:32	15.3	15.9	14	15.2
3080	2017-11-21 01:59:32	15.4	15.9	14.2	15.2
3081	2017-11-21 02:14:32	15.6	16.2	14.2	15.4
3082	2017-11-21 02:29:32	15.7	16.3	14.5	15.4
3083	2017-11-21 02:44:32	15.3	16.7	15	15.5
3084	2017-11-21 02:59:32	16	16.6	15.1	15.9
3085	2017-11-21 03:14:32	16.3	16.9	15.4	16.3
3086	2017-11-21 03:29:32	15.3	16.9	15.5	15.4
3087	2017-11-21 03:44:32	14.8	16.1	15	14.7
3088	2017-11-21 03:59:32	14.4	15.6	14.4	14.3
3089	2017-11-21 04:14:32	14.7	15.8	14.5	14.7
3090	2017-11-21 04:29:32	15.2	16.3	14.7	15.3
3091	2017-11-21 04:44:32	15.3	16.6	15	15.4
3092	2017-11-21 04:59:32	15.4	16.7	15.3	15.4
3093	2017-11-21 05:14:32	15.3	16.7	15.4	15.3
3094	2017-11-21 05:29:32	15.2	16.5	15.5	15.5
3095	2017-11-21 05:44:32	15.1	16.5	15.4	15.4
3096	2017-11-21 05:59:32	15	16.6	15.5	15.4
3097	2017-11-21 06:14:32	15.1	16.6	15.6	15.4
3098	2017-11-21 06:29:32	15	16.6	15.8	15.4
3099	2017-11-21 06:44:32	15.2	16.5	15.7	15.4
3100	2017-11-21 06:59:32	15.1	16.6	15.7	15.5
3101	2017-11-21 07:14:32	15.1	16.6	15.8	15.5

3102	2017-11-21 07:29:32	15.1	16.5	15.9	15.5
3103	2017-11-21 07:44:32	14.8	16.5	15.9	15.4
3104	2017-11-21 07:59:32	14.7	16.4	15.7	15.3