

# Partial lunar eclipse in Hong Kong on July 17

A partial lunar eclipse will occur in Hong Kong in the small hours of July 17 (Wednesday). As the elevation of the moon will be rather low during the eclipse, the event will be best observed at places with an unobstructed view to the southwest if weather permits.

The eclipse will begin at 2.42am with the maximum eclipse occurring at 5.31am. This partial lunar eclipse has an umbral magnitude of 0.66, meaning that 66 per cent of the moon's diameter will enter into the umbra (total shadow) of the Earth at the time of the maximum eclipse. Details of the partial lunar eclipse are set out in the following table:

Date	Time	Phenomenon	Elevation	Direction (Azimuth)
July 16 (Tuesday)	6.47pm	Moonrise	-1 degree	East-southeast (114 degrees)
July 17 (Wednesday)	2.42am	Moon enters penumbra	34 degrees	Southwest (220 degrees)
	4.01am	Moon enters umbra	21 degrees	Southwest (233 degrees)
	5.31am	Maximum eclipse	4 degrees	West-southwest (244 degrees)
	5.49am	Sunrise	-1 degree	East-northeast (67 degrees)
	5.52am	Moonset	-1 degree	West-southwest (246 degrees)
	7.00am	Moon leaves umbra	Below the horizon	—
	8.19am	Moon leaves penumbra	Below the horizon	—

Members of the public can watch the whole event via a webcast to be jointly provided by the Hong Kong Observatory, the Hong Kong Space Museum, the Ho Koon Nature Education cum Astronomical Centre, the Po Leung Kuk Ngan Po Ling College and the Hong Kong Sheng Kung Hui Solar Tower's Camp on the following webpage: [www.hko.gov.hk/gts/event/webcast-20190717.htm](http://www.hko.gov.hk/gts/event/webcast-20190717.htm).

For the latest weather conditions and the astronomical observation conditions on July 17, please refer to the 9-day weather forecast issued by the Hong Kong Observatory ([www.hko.gov.hk/wxinfo/currwx/fnd.htm](http://www.hko.gov.hk/wxinfo/currwx/fnd.htm)) and the Weather Information for Astronomical Observation webpage ([www.hko.gov.hk/gts/astronomy/astro\\_portal.html](http://www.hko.gov.hk/gts/astronomy/astro_portal.html)).

The next lunar eclipse observable in Hong Kong will occur on January 11, 2020. It will be a penumbral lunar eclipse.

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## **Guangdong-Hong Kong-Macao Pearl River Delta Regional Air Quality Monitoring Network results for 2018 released**

The Guangdong-Hong Kong-Macao Pearl River Delta Regional Air Quality Monitoring Network released today (June 27) a report on its 2018 monitoring results, which showed the continual improvement of air quality in the Pearl River Delta (PRD) last year. Compared with 2017, the average annual concentration levels of sulphur dioxide (SO<sub>2</sub>), nitrogen dioxide (NO<sub>2</sub>), carbon monoxide (CO), respirable suspended particulates (RSP) and fine suspended particulates (FSP) in the PRD in 2018 decreased by 18 per cent, 3 per cent, 6 per cent, 4 per cent and 10 per cent respectively.

The emission reduction measures implemented by Guangdong, Hong Kong and Macao in recent years have contributed to the improvement of the overall air quality in the PRD. The monitoring network was launched in November 2005. Compared with 2006, the average annual concentration levels of SO<sub>2</sub> and RSP in 2018 had decreased by 81 per cent and 36 per cent respectively, while the annual concentration level of NO<sub>2</sub> decreased by 28 per cent within the same period. Although the other two parameters (i.e. CO and FSP) have only been covered by the monitoring network since September 2014, both their average annual concentration levels had decreased by 13 per cent in 2018 compared with 2015. However, the 2018 average annual concentration level of ozone (O<sub>3</sub>) had increased by 21 per cent compared with 2006, indicating that further alleviation of regional photochemical pollution is required. The pollution trends of the six air pollutants since 2006 are shown in the Annex.

To continually improve regional air quality and photochemical pollution, the Hong Kong Special Administrative Region Government and the Guangdong Provincial Government have long been committed to reducing emissions of key sources of air pollutants. The two governments have launched a study on post-2020 emission reduction targets and concentration levels of regional air pollutants with a view to formulating emission reduction targets after 2020. Meanwhile, the Macao Special Administrative Region Government has also rolled out and implemented various emission reduction initiatives.

Hong Kong has implemented various control measures on marine and land transport, power plants and non-road mobile machinery in order to improve air quality on a sustainable basis. On the vehicular emissions front, Hong Kong has tightened the emission standards for newly registered vehicles to Euro VI

and will continue to phase out Euro III and pre-Euro III diesel commercial vehicles; it has also conducted a trial scheme for electric buses; retrofitted franchised buses with selective catalytic reduction devices; stepped up emission control on petrol and liquefied petroleum gas vehicles by using roadside remote sensing equipment; and encouraged the use of electric vehicles through tax incentives. As regards marine emissions, Hong Kong and the Guangdong Provincial Government have jointly implemented control measures to mandate vessels to use low-sulphur fuel. Hong Kong will also increase the use of natural gas in power generation, promote wider use of renewable energy and continue to tighten the emission caps for power plants progressively. In addition, the emission standards for non-road vehicles have been tightened to Euro VI, on a par with road vehicles.

In 2018, Guangdong Province promulgated the Regulations of Guangdong Province on Prevention and Control of Atmospheric Pollution; published and implemented a three-year action plan on pollution control and safeguarding blue sky respectively; introduced targets for improving air quality in 2020; and implemented various other air pollution control measures to upgrade industry structure, enhance energy supply structure, adjust transportation structure, deepen industries control at source, enhance control of mobile and area sources, tackle polluting weather effectively and enhance its ability to make decisions based on scientific considerations. Newly received environmental impact assessment projects (including those for the steel, petrochemical and cement industries) must comply with the specific emission standards for air pollutants. All motor vehicle petrol and diesel on sale in Guangdong must meet National VI standards. Full promotion has also been given to the electrification of public transport, implementation of control measures on polluting industries and premises, introduction of joint inspections on volatile organic compounds, and the provision of guidance to key enterprises in different places to initiate "One Enterprise One Strategy" integrated control measures.

Macao has rolled out a series of emission reduction measures to focus on reducing pollution from mobile and stationary sources in accordance with the air pollution control and management initiatives laid down in the Five-Year Development Plan of the Macao Special Administrative Region (2016-2020) and the Environmental Protection Planning of Macao (2010-2020). Such measures include promulgating the use of natural gas and the construction of relevant facilities; upgrading emission standards for newly imported vehicles to Euro VI; formulating emission standards for in-use vehicles; phasing out polluting motorcycles with two-stroke engines; promoting new energy vehicles; raising the standards of vehicle fuels to Euro V; and implementing emission standards for stationary sources such as sewage plants and the chemical and pharmaceutical industries.

The monitoring network, comprising 23 air monitoring stations located in Guangdong, Hong Kong and Macao, monitors six major air pollutants (i.e. SO<sub>2</sub>, NO<sub>2</sub>, O<sub>3</sub>, RSP, FSP and CO). The Guangdong Environmental Monitoring Centre, the Environmental Protection Department of Hong Kong (HKEPD), the Macao Environmental Protection Bureau and the Macao Meteorological and Geophysical Bureau are responsible for the co-ordination, management and operation of the

monitoring stations of the three sides, and will continue to release annual reports on the monitoring results and pollution trends of PRD as well as quarterly statistical monitoring results. Members of the public can visit the website of the Guangdong-Hong Kong-Macao Regional Air Quality Monitoring Information System (<http://113.108.142.147:20047>) direct, or the websites of the Department of Ecology and Environment of Guangdong Province ([gdee.gd.gov.cn](http://gdee.gd.gov.cn)), the HKEPD ([www.epd.gov.hk](http://www.epd.gov.hk)), the Macao Environmental Protection Bureau ([www.dspa.gov.mo](http://www.dspa.gov.mo)) or the Macao Meteorological and Geophysical Bureau ([www.smg.gov.mo](http://www.smg.gov.mo)) to obtain the relevant annual reports and quarterly monitoring statistics.

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## Two illegal workers jailed

Two Vietnamese illegal workers were jailed by Shatin Magistrates' Courts yesterday (June 26).

During operation "Twilight" on June 24, Immigration Department (ImmD) investigators raided a restaurant in Tuen Mun. A male Vietnamese illegal worker and a female Vietnamese illegal worker, aged 34 and 43 respectively, were arrested. When intercepted they were working as dish washing workers. An employer suspected of employing the illegal workers was arrested and the investigation is ongoing.

The two illegal workers were charged at Shatin Magistrates' Courts yesterday with taking employment after landing in Hong Kong unlawfully and remaining in Hong Kong without the authority of the Director of Immigration or while being a person in respect of whom a removal order or deportation order was in force. They pleaded guilty to the charge and were sentenced to 15 months' imprisonment.

The ImmD spokesman warned that, as stipulated in section 38AA of the Immigration Ordinance, illegal immigrants or people who are the subject of a removal order or a deportation order are prohibited from taking any employment, whether paid or unpaid, or establishing or joining in any business. Offenders are liable upon conviction to a maximum fine of \$50,000 and up to three years' imprisonment. The Court of Appeal has issued a guideline ruling that a sentence of 15 months' imprisonment should be applied in such cases.

The spokesman reiterated that it is a serious offence to employ people who are not lawfully employable. The maximum penalty is imprisonment for three years and a fine of \$350,000. The High Court has laid down sentencing guidelines that the employer of an illegal worker should be given an immediate custodial sentence. According to the court sentencing, employers must take all practicable steps to determine whether a person is lawfully employable prior to employment. Apart from inspecting a prospective employee's identity card, the employer has the explicit duty to make

enquiries regarding the person and ensure that the answers would not cast any reasonable doubt concerning the lawful employability of the person. The court will not accept failure to do so as a defence in proceedings. It is also an offence if an employer fails to inspect the job seeker's valid travel document if the job seeker does not have a Hong Kong permanent identity card. The maximum penalty for failing to inspect such a document is imprisonment for one year and a fine of \$150,000.

Under the existing mechanism, the ImmD will, as a standard procedure, conduct initial screening of vulnerable persons, including illegal workers, illegal immigrants, sex workers and foreign domestic helpers, who are arrested during any operation with a view to ascertaining whether they are trafficking in persons (TIP) victims. When any TIP indicator is revealed in the initial screening, the officers will conduct a full debriefing and identification by using a standardised checklist to ascertain the presence of TIP elements, such as threat and coercion in the recruitment phase, and the nature of exploitation. Identified TIP victims will be provided with various forms of support and assistance, including urgent interference, medical services, counselling, shelter, temporary accommodation and other supporting services. The ImmD calls on TIP victims to report crimes to the relevant departments.

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## [Lifesaving services at some beaches resume](#)

Attention TV/radio announcers:

Please broadcast the following as soon as possible and repeat it at regular intervals:

Here is an item of interest to swimmers.

The Leisure and Cultural Services Department has announced that the lifesaving services at Golden Beach, Cafeteria New Beach and Cafeteria Old Beach in Tuen Mun District resumed today (June 27). The lifesaving services at these beaches were suspended earlier due to an insufficient number of lifeguards on duty.

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# Red flags lowered at Pui O Beach and Silver Mine Bay Beach

Attention TV/radio announcers:

Please broadcast the following as soon as possible and repeat it at regular intervals:

Here is an item of interest to swimmers.

The Leisure and Cultural Services Department announced today (June 27) that the red flags at Pui O Beach and Silver Mine Bay Beach in Islands District have been lowered and these beaches have been reopened.

These beaches were temporarily closed earlier on after sightings of dead fish from unidentified sources.