



KEMENTERIAN TENAGA, SAINS, TEKNOLOGI, ALAM SEKITAR DAN PERUBAHAN IKLIM

Bil	Berita	Media	Capaian Berita Penuh
7 JANUARI 2019 (ISNIN)			
1.	<p><u>Gempa bumi kuat landa Laut Maluku Utara</u></p> <p>Satu gempa bumi kuat berukuran 6.5 pada skala Richter berlaku berhampiran Laut Maluku Utara pada 1.27 pagi tadi, menurut Jabatan Meteorologi Malaysia.</p>	Malaysiakini	Klik pada tajuk berita
2.	<p><u>Amaran cuaca buruk di Terengganu ditarik balik</u></p> <p>Keadaan cuaca di Terengganu hari ini semakin pulih dan Jabatan Meteorologi Malaysia menarik balik amaran angin kencang dan laut bergelora di kawasan perairan Terengganu.</p>	Malaysiakini	Klik pada tajuk berita
3.	<p><u>Met Dept: No tsunami threat to Malaysia after 6.5 magnitude quake in Molucca Sea</u></p> <p>A strong earthquake, with a magnitude 6.5 on the Richter scale, occurred near Northern Molucca Sea at 1.27am today, according to the Malaysian Meteorological Department.</p>	Malaymail	Klik pada tajuk berita
6 JANUARI 2019 (AHAD)			
4.	<p><u>Pabuk jauhi perairan negara</u></p> <p>Jabatan Meteorologi Malaysia (METMalaysia) menamatkan amaran daripada Pabuk semalam, selepas ribut tropika itu semakin menjauhi perairan Malaysia dan tidak lagi memberi ancaman kepada negara.</p>	Berita Harian	Rujuk lampiran 1



5.	<p><u>METMalaysia tarik semula amaran ribut tropika</u></p> <p>Semua aktiviti pantai sudah dibenarkan beroperasi seperti biasa, selepas bendera merah diturunkan susulan amaran ribut tropika Pabuk ditamatkan Jabatan Meteorologi Malaysia (METMalaysia) semalam.</p>	Berita Harian	Rujuk lampiran 2
6.	<p><u>KPKT minta JAS hantar laporan pemantauan operasi</u></p> <p>KULIM: Jabatan Alam Sekitar (JAS) diminta menghantar laporan pemantauan operasi kilang kitar semula plastik setiap enam bulan sekali kepada Kementerian Perumahan dan Kerajaan Tempatan (KPKT).</p>	Berita Harian	Klik pada tajuk berita
7.	<p><u>Fishermen return to sea after stormy days</u></p> <p>The Malaysian Meteorological Department said Pabuk was in the Gulf of Thailand and was expected to be in the waters off Phuket and North Malacca Straits until today and would also affect Perlis, Kedah and Penang.</p>	The Star	Klik pada tajuk berita atau rujuk lampiran 3
8.	<p><u>Hot days are over as wind pattern returns to normal say Met dept</u></p> <p>Director of the National Weather and Geophysical Operations Center, Meteorological Department of Malaysia (Metmalaysia), Dr Mohd Hisham Mohd Anip, said now that the tropical storm had moved out from the country, wind conditions are expected to return to their normal state.</p>	New Straits Times	Klik pada tajuk berita
9.	<p><u>Ribut Pabuk: Kedah, Perlis tidak terbabit</u></p> <p>Sementara itu, Jabatan Meteorologi Malaysia menamatkan amaran ribut tropika Pabuk hari ini setelah kedudukan ribut</p>	Mingguan Malaysia	Rujuk lampiran 4



	tropika itu dilihat semakin menjauhi perairan Malaysia dan tidak lagi memberi ancaman kepada negara.		
5 JANUARI 2019 (SABTU)			
10.	<p><u>Pabuk batters the east coast</u></p> <p>Similar to conditions in the east coast states earlier this week, the Meteorological Department warned of strong winds of up to 50kph as well as waves of up to 3.5m occurring in the seas off Kelantan, Perlis, Kedah and Penang.</p>	The Star	Rujuk lampiran 5
11.	<p><u>Pabuk: Pengusaha pelancongan teliti cuaca</u></p> <p>Menurutnya, mereka juga perlu mendapatkan nasihat daripada Jabatan Meteorologi kerana kegagalan untuk mengikuti maklumat berkenaan boleh memberi implikasi buruk kepada mereka.</p>	Utusan Malaysia	Rujuk lampiran 6
12.	<p><u>JBPM buat persiapan hadapi Ribut Siklon</u></p> <p>Jabatan Meteorologi Malaysia sebelum ini telah mengeluarkan amaran waspada tahap kuning bagi kawasan pantai timur, negeri-negeri berkenaan akan menerima hujan lebat dan angin kencang pada kelajuan 40 kilometer (km) sejam.</p>	Utusan Malaysia	Rujuk lampiran 7
13.	<p><u>Lynas files appeal against ministry's waste removal decision</u></p> <p>The rare earth materials producer said this was in line with the Atomic Energy Licensing Act 1984 in respect of the decision by the Energy, Science, Technology, Environment and Climate Change Ministry (MESTECC) to have Lynas export its water leach purification (WLP) residue out of Malaysia before Sept 2.</p>	The Star	Klik pada tajuk berita dan Rujuk lampiran 8



14.	<p><u>Ribut Pabuk menghala ke Laut Andaman - KP METMalaysia</u></p> <p>Ketua Pengarah Jabatan Meteorologi Malaysia (METMalaysia), Alui Bahari berkata, keadaan itu boleh menyebabkan hujan lebat dan angin kencang melebihi 50 kilometer sejam.</p>	Astro Awani	Klik pada tajuk berita
15.	<p><u>Pabuk sudah pergi</u></p> <p>JABATAN Meteorologi Malaysia menamatkan amaran ribut tropika Pabuk hari ini selepas kedudukan ribut tropika itu dilihat semakin menjauhi perairan Malaysia dan tidak lagi memberi ancaman kepada negara.</p>	Harian Metro	Klik pada tajuk berita
16.	<p><u>Tropical storm Pabuk veering away from Malaysian waters</u></p> <p>The Meteorological Department today lifted a warning on tropical storm Pabuk after the storm moved further away from Malaysian waters and no longer pose a danger to the country.</p>	Malaymail	Klik pada tajuk berita
17.	<p><u>Nelayan Melaka boleh turun laut</u></p> <p>Pengarah Jabatan Meteorologi Malaysia (MetMalaysia) negeri Nasrul Hakim Hashim berkata, setakat ini semua aktiviti di laut termasuk kumpulan nelayan boleh berjalan seperti biasa berikutan tiada kesan langsung terhadap fenomena angin kencang sejak Rabu lalu.</p>	Harian Metro	Rujuk lampiran 9
18.	<p><u>Jauhi Pantai, Ribut tropika dijangka landa Langkawi hari ini</u></p> <p>Pengarah Angkatan Pertahanan Awam, Malaysia (APM) Kedah, Leftenan Kolonel (PA) Awang Askandar Ampuan Yaacob berkata,</p>	Harian Metro	Rujuk lampiran 10



	berdasarkan ramalan Jabatan Meteorologi Malaysia (MetMalaysia), ribut ini dijangka melanda Pulau Langkawi bermula jam 2 petang.		
19.	<p><u>Kereta dihempap pokok tumbang</u></p> <p>Pengerusi Persatuan Nelayan Kawasan Bachok, Mohd Saripudin Isahak berkata, nelayan tidak keluar ke laut kerana berjaga-jaga selepas amaran dikeluarkan Jabatan Meteorologi.</p>	Berita Harian	Rujuk lampiran 11
20.	<p><u>MPOB terima IKM Laboratory Excellence Platinum Award</u></p> <p>Penyampaian anugerah disempurnakan Timbalan Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim, Isnaraisah Munirah Majilis.</p>	Berita Harian	Rujuk lampiran 12
21.	<p><u>Inovasi rawatan pergigian untuk pesakit kurang upaya</u></p> <p>Mendapat sokongan Majlis Rekabentuk Malaysia (MRM) bersama Kementerian Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim (MESTECC), terhasillah Stance Wheel.</p>	Berita Harian	Rujuk lampiran 13
22.	<p><u>Northern States on Alert</u></p> <p>The Meteorological Department director-general Alui Bahari said a yellow-stage warning had been raised for Perlis, Kedah and Penang.</p>	New Straits Times	Rujuk lampiran 14
23.	<p><u>Penduduk cemas amaran Pabuk</u></p> <p>Amaran itu dikeluarkan Pengarah Angkatan Pertahanan Awam Malaysia (APM) Kedah, Left Kol (PA) Awang Askandar Ampuan Yaacob, yang menerima laporan Jabatan</p>	Berita Harian	Rujuk lampiran 15



Meteorologi Malaysia (MetMalaysia).		
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TEMPATAN

Bil	Berita	Media	Capaian Berita Penuh
7 JANUARI 2019 (ISNIN)			
24.	<p><u>CES 2019 bermula, ini lima perkara yang menjadi tumpuan tahun ini</u></p> <p>Ini akan meliputi pelbagai aspek teknologi, termasuk penyambungan 5G (<i>5G connectivity</i>), kecerdasan buatan (<i>Artificial Intelligence</i>), realiti maya (<i>Artificial / Virtual Reality</i>), bandar pintar (<i>smart cities</i>) dan daya tahan, sukan, robotika dan banyak lagi.</p>	Astro Awani	Klik pada tajuk berita
25.	<p><u>High tech and chocs</u></p> <p>We need to continue the growth of investments in our educational system in science, technology, engineering and mathematics (STEM) while not neglecting the social sciences and humanities, producing more high-quality university graduates that are industry-ready, spending more on R&D, and improving our governance structure in science if we are serious about not getting stuck in the “middle income quagmire”.</p>	New Straits Times	Klik pada tajuk berita dan rujuk lampiran 16
26.	<p><u>Authorities must walk the talk</u></p> <p>IN many areas in Selangor and Kuala Lumpur, big plastic bags are being used to hold twigs, leaves and other garden refuse before they are collected for disposal.</p>	The Star	Klik pada tajuk berita dan rujuk lampiran 17



27.	<p><u>Kastam perlu kenal pasti sisa plastik import</u></p> <p>Menterinya, Zuraida Kamaruddin berkata, pihaknya akan memberikan taklimat dan meningkatkan aspek pengenalan bahan plastik kepada pihak JKDM bagi membolehkan mereka mengenal pasti sisa plastik yang diimport masuk.</p>	Kosmo	Rujuk lampiran 18
28.	<p><u>Govt looking at grading system for plastic waste industry</u></p> <p>The government will look into developing a grading system for facilities processing plastic waste to better regulate the industry, says Housing and Local Government Minister Zuraida Kamaruddin.</p>	The Star	Rujuk lampiran 19
29.	<p><u>Larang guna straw demi manfaat masa hadapan</u></p> <p>Bulan ini bermulalah larangan penggunaan straw plastik di semua kedai makan di Wilayah Persekutuan Kuala Lumpur, Putrajaya dan Labuan.</p>	Utusan Malaysia	Rujuk lampiran 20
30.	<p><u>Hanya 19 mohon permit AP</u></p> <p>Hanya 19 permohonan baharu lesen import (AP) proses barangan plastik kitar semula diterima daripada keseluruhan 114 syarikat seluruh negara.</p>	Sinar Harian	Rujuk lampiran 21
6 JANUARI 2019 (AHAD)			
31.	<p><u>Peranan lebih besar swasta sedia rumah mampu milik</u></p> <p>Antara teknologi yang dimaksudkan adalah seperti kecerdasan buatan (AI), analisis data besar, teknologi blockchain, dron dan</p>	Berita Harian	Klik pada tajuk berita



	perkhidmatan e-dompot.		
32.	<p><u>Embrace 'disruptive technology', Azmin tells property developers</u></p> <p>The economic affairs minister pointed out the world is undergoing a technological revolution and the use of "disruptive technology" can be an important contributor to the nation's economy.</p>	Malaymail	Klik pada tajuk berita
33.	<p><u>Banjir kilat landa Marang</u></p> <p>Marang – Hujan lebat selama lebih tiga jam bermula tengah malam di kawasan Dun Rhu Rendang di sini menyebabkan beberapa kawasan dilanda banjir kilat awal pagi tadi.</p>	Sinar Harian	Klik pada tajuk berita
34.	<p><u>Manjoi dilanda ribut</u></p> <p>"Sementara, TNB (Tenaga Nasional Berhad) sedang membantu menyambung semula bekalan elektrik ke semua kediaman dan premis terbabit, mangsa juga dinasihatkan untuk mematuhi arahan pihak berkuasa untuk berpindah demi keselamatan," katanya.</p>	Harian Metro	Klik pada tajuk berita
35.	<p><u>UMS scientist in Antarctica</u></p> <p>Malaysian atmospheric scientist Assoc Prof Dr Justin Sentian is in Antarctica in the Austral summer to carry out a climate and atmospheric science research project.</p>	The Star	Rujuk lampiran 22
5 JANUARI 2019 (SABTU)			
36.	<p><u>'It's over, plastic!'</u></p> <p>In line with the Government's decision to ban plastic straws in the Federal Territories,</p>	The Star	Rujuk lampiran 23



	Sunway Malls has introduced metal straws which can be redeemed from participating malls.		
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ANTARABANGSA

Bil	Berita	Media	Capaian Berita Penuh
7 JANUARI 2019 (ISNIN)			
37.	<p><u>Quake hits western Iran, about 30 injured</u></p> <p>DUBAI: An earthquake hit an area in western Iran near the Iraqi border on Sunday, injuring about 31 people, most of them lightly, and the state news agency IRNA reported.</p>	New Straits Times	Klik pada tajuk berita
38.	<p><u>Magnitude 5.0 quake jolts Japan's Kumamoto</u></p> <p>TOKYO: An earthquake with a preliminary magnitude of 5.0 hit southern Japan on Thursday but no tsunami warning was issued, the Japan Meteorological Agency (JMA) said, and there were no immediate reports of damage or injuries.</p>	New Straits Times	Klik pada tajuk berita
41.	<p><u>Rain clear smog in New Delhi, but air quality still 'very poor'</u></p> <p>New Delhi: A rainy spell brought better air to residents of New Delhi, giving them a brief respite from thick grey smog that has shrouded the Indian capital for the last two months, although air quality continued to be "very poor".</p>	The Star	Rujuk lampiran 24
42.	<p><u>Korban terus meningkat</u></p> <p>Manila: Jumlah kematian akibat ribut</p>	Sinar Harian	Rujuk lampiran 25



	melanda Filipina tidak lama selepas sambutan Hari Natal baru-baru ini telah meningkat kepada 126 orang, menurut pihak berkuasa, semalam.		
43.	<u>Langit Tasmania bertukar warna jingga akibat kebakaran hutan</u> Hobart, Australia – Sebahagian langit Tasmania bertukar menjadi warna jingga akibat kebakaran hutan sehingga menyebabkan penduduknya terpaksa melarikan diri ke tempat lebih selamat pada Jumaat lalu.	Kosmo	Rujuk lampiran 26
44.	<u>Fenomena gerhana matahari separuh</u> Kombinasi gambar menunjukkan gerhana matahari separuh yang disaksikan dari Menara Tokyo Skytree, Tokyo, Jepun, semalam.	Sinar Harian	Rujuk lampiran 27
6 JANUARI 2019 (AHAD)			
45.	<u>Merapi muntahkan lahar 1.2km</u> Jakarta 5 Jan. – Gunung Berapi Merapi di Yogyakarta dan Jawa Tengah di Indonesia memuntahkan lahar dan debu, semalam hingga menyebabkan beberapa perkampungan di daerah Klaten diselubungi debu dari gunung tersebut.	Mingguan Malaysia	Rujuk lampiran 28
46.	<u>Pabuk tinggalkan memori duka di Thailand</u> Bangkok, 5 Jan. - Ribuan penduduk di selatan Thailand mula kembali ke rumah masing-masing dan operasi perniagaan kembali seperti biasa selepas Siklon Tropika Pabuk yang membadai negara ini semalam mula memasuki Laut Andaman.	Mingguan Malaysia	Rujuk lampiran 29



47.	<p><u>Killer heat</u></p> <p>On a sweltering Wednesday in June, a rail-thin woman named Rehmati gripped the doctor's table with both hands. She could hardly told herself upright, the pain in her stomach was so intense. She'd travelled for 26 hours in a hot oven of a bus to visit her husband, a migrant worker here in New Delhi. By the time she got to the capital, the city was an oven too: 43C by lunchtime, and Rehmati was in an emergency room.</p>	New Sunday Times	Rujuk lampiran 30
48.	<p><u>Thailand suffers floods and blackouts after storm</u></p> <p>Nakhon Si Thammarat: Floods and blackouts caused by Tropical Storm Pabuk left nearly 30,000 people in evacuation shelters across southern Thailand, as relieved tourists stranded on islands further north were spared the worst and began to plot routes home.</p>	The Star	Rujuk lampiran 31
5 JANUARI 2019 (SABTU)			
49.	<p><u>China uji Ibu Segala Bom</u></p> <p>BEIJING 4 Jan. - China telah menguji senjata bukan nuklear paling berkuasa yang digelar sebagai 'Ibu Segala Bom' oleh media tempatan.</p>	Utusan Malaysia	Klik pada tajuk berita
50.	<p><u>Heatwave wilts Australia's southeast</u></p> <p>Sydney: A heatwave sweeping Australia engulfed the southeast yesterday, boosting temperature records, spurring fire bans and arousing concern about the health of contestants in this month's tennis Open.</p>	New Straits Times	Rujuk lampiran 32
51.	<p><u>Pabuk Mengamuk</u></p> <p>Sekurang-kurangnya seorang terbunuh</p>	Harian Metro	Rujuk lampiran 33



	<p>akibat ribut Pabuk yang melanda Teluk Siam yang membawa ombak setinggi lima meter, angin kencang menumbangkan pokok dan bumbung rumah serta banjir akibat hujan lebat semalam.</p>		
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LAMPIRAN 1 BERITA HARIAN (TRAGEDI): MUKA SURAT 14 TARIKH: 6 JANUARI 2019 (AHAD)

Pabuk jauhi perairan negara

Kuala Lumpur: Jabatan Meteorologi Malaysia (METMalaysia) menamatkan amaran daripada Pabuk semalam, selepas ribut tropika itu semakin menjauhi perairan Malaysia dan tidak lagi memberi ancaman kepada negara.

Ketua Pengarah METMalaysia, Alui Bahari, berkata ribut tropika itu kini berada pada kedudukan 8.9°U 98.2°T dan dijangka bergerak 15 kilometer sejam (kmsj) ke arah barat laut menuju Teluk Benggala.

"Keadaan ini boleh menyebabkan hujan lebat, angin kencang melebihi 50kmsj dan laut bergelora dengan ketinggian ombak melebihi 3.5 meter di kawasan perairan Phuket," katanya dalam satu kenyataan, semalam.

Beliau berkata, jarak ribut itu dari bandar Arau, Perlis adalah 362km dan Langkawi, Kedah (345 km).

Alui berkata, kenyataan yang dimuat naik di laman web Jabatan Meteorologi Malaysia itu, adalah makluman terakhir mengenai ribut tropika Pabuk.

Lapangan terbang Langkawi operasi seperti biasa

Sementara itu di Langkawi, operasi Lapangan Terbang Antarabangsa Langkawi pagi semalam, berjalan seperti biasa biarpun pulau pelancongan terbabit dilaporkan akan menerima tempas daripada Pabuk.

Pengurus Lapangan Terbang Antarabangsa Langkawi, Jeffri Ramli, berkata pihaknya tidak menerima sebarang arahan untuk menangguh atau membatalkan jadual penerbangan.

"Kita mencatatkan lebih 30 penerbangan keluar masuk dan semuanya beroperasi seperti biasa.

"Lapangan Terbang Antarabangsa Langkawi juga tetap beroperasi seperti biasa dan keputusan membatalkan penerbangan hanya dibuat syarikat penerbangan sendiri, selepas mendapat maklumat dari Jabatan Penerbangan Awam (DCA).

"Bagaimanapun, kita akan sentiasa berhubung dengan METMalaysia bagi mendapatkan maklumat terbaharu," katanya ketika dihubungi, semalam.

Info

Ribut tropika Pabuk

→ Ribut tropika itu kini berada pada kedudukan 8.9°U 98.2°T.

→ Dijangka bergerak 15 kilometer sejam (kmsj).

→ Keadaan ini boleh menyebabkan hujan lebat, angin kencang dan laut bergelora di kawasan perairan Phuket.

LAMPIRAN 2
BERITA HARIAN (TRAGEDI): MUKA SURAT 14
TARIKH: 6 JANUARI 2019 (AHAD)

BENCANA



Cuaca di Perlis, Kedah dan Pulau Pinang bertambah baik. Ini membolehkan amaran yang dikeluarkan pada 28 Disember lalu, ditamatkan”

Alui Bahari,
Ketua Pengarah
METMalaysia

METMalaysia tarik semula amaran ribut tropika

Langkawi: Semua aktiviti pantai sudah dibenarkan beroperasi seperti biasa, selepas bendera merah diturunkan susulan amaran ribut tropika Pabuk ditamatkan **Jabatan Meteorologi Malaysia (METMalaysia)** semalam.

Penamatan amaran pada jam 11 pagi itu, dibuat selepas ribut tropika Pabuk berada pada jarak 345 kilometer (km) dari Langkawi.

Jurucakap Angkatan Pertahanan Awam Malaysia (APM) Langkawi berkata, pihaknya sudah menerima pemakluman mengenai penamatan amaran pada jam 11.40 pagi semalam.

“Buat masa ini, kami sudah menurunkan bendera merah di beberapa bahagian di Pantai Chenang, bagi membolehkan pengunjung melakukan aktiviti seperti berenang ataupun beriadah.

“Bagaimanapun, kita masih me-

ngekalkan anggota di menara tinjau dan sekitar kawasan pantai, bagi langkah berjaga-jaga,” katanya ketika ditemui di Pantai Chenang di sini, semalam.

Kedudukan jauh dari negara

METMalaysia mengumumkan penamatan amaran ribut tropika Pabuk, selepas kedudukannya didapati berada pada jarak 345km dari Langkawi dan 362km dari Arau, Perlis.

Ketua Pengarah METMalaysia, Alui Bahari, berkata ribut terbabit semakin menjauhi perairan Malaysia, sekali gus tidak memberi ancaman kepada negara.

“Keadaan cuaca di Perlis, Kedah dan Pulau Pinang juga dijangka bertambah baik.

“Ini membolehkan amaran yang dikeluarkan pada 28 Disember lalu, ditamatkan,” katanya dalam satu kenyataan.

Kelmarin, akhbar melaporkan Pengarah Pejabat Meteorologi Pulau Pinang, Ling Leong Kwok, berkata Pabuk yang melanda perairan Pantai Timur Semenanjung tidak akan membadai Langkawi secara terus, sebaliknya pulau peranginan itu hanya akan menerima kesan sampingan akibat keadaan itu.

Katanya, kedudukan angin ribut berada pada jarak 200km ke utara, sekali gus tidak akan membadai Langkawi secara terus.

Sehubungan itu, beliau berkata, penduduk dan pelancong di Langkawi tidak perlu panik, tetapi berhati-hati dengan keadaan angin kuat dan hujan tempias daripada ribut berkenaan.

Malah, pengusaha feri juga memaklumkan tiada sebarang pembatalan atau pengurangan perjalanan feri ke Langkawi dari Kuala Kedah dan Kuala Perlis.

LAMPIRAN 3
THE STAR: MUKA SURAT 10
TARIKH: 6 JANUARI 2019 (AHAD)

Fishermen return to sea after stormy days

KUANTAN: The coastal fishermen of Kampung Berserah, near here, have resumed their fishing activities after the weather turned for the better.

A check early yesterday found that the fishermen had started to make preparations to resume fishing activities today by loading up fish containers and ice onto their boats.

Fisherman Aziz Razali, 45, said the fishermen in the village had decided to go to sea due to the good weather.

"The wind has eased and the waves are also moderate. So, we feel we can go out to sea after almost eight days.

"We will also check the Malaysian Meteorological Department's report before making a final decision later," Bernama reported him as saying.

Aziz said the sea was turbulent with huge waves from Tuesday until Friday, believed to be due to tropical storm Pabuk on the east coast of Peninsular Malaysia.

The storm was driven by 40kph to 50kph winds and pushing waves up to 3.5m.

"The sea was most turbulent on Thursday. We dared not go out fearing a storm might occur when we were far out at sea," he said.

Azmi Mohd, 39, said he stayed ashore for more than a week. He repaired his net and made additional fish traps.

The Malaysian Meteorological Department said Pabuk was in the Gulf of Thailand and was expected to be in the waters off Phuket and North Malacca Straits until today and would also affect Perlis, Kedah and Penang.

It was reported that a fisherman was killed and another went missing when their boat capsized off Pattani province when Pabuk hit the south coast of Thailand on Friday, uprooting trees and power poles and swamping some places with water up to 50cm to 100cm deep.

The storm hit the Pak Phanang district of Nakhon Si Thammarat province, where trees crashed down on houses, causing widespread damage.

More than 100 foreign tourists were rescued on Friday from an island off Phuket.



LAMPIRAN 4
MINGGUAN MALAYSIA (DALAM NEGERI): MUKA SURAT 66
TARIKH: 6 JANUARI 2019 (AHAD)

Ribut Pabuk:
: Kedah,
: Perlis tidak
: terbabit

ALOR SETAR 5 Jan. - Tiada kejadian ribut mahupun bencana lain yang dilaporkan berlaku di negeri ini termasuk Pulau Langkawi berikutan daripada tempas ribut tropika Pabuk yang diramalkan melanda negeri-negeri di bahagian utara tanah air, semalam.

Pegawai Bahagian Operasi dan Bencana Angkatan Pertahanan Awam Malaysia (APM) negeri, **Kapten (PA) Saifuddin Abdullah** berkata, pihaknya tidak menerima sebarang laporan mengenai ribut atau kejadian luar biasa yang berlaku sepanjang tempoh ramalan itu daripada semalam hingga awal pagi ini.

Katanya, sebaliknya hanya hujan lebat selain laut bergelora di dua pantai yang menjadi tumpuan pelancong di Langkawi iaitu Pantai Chenang dan Pantai Tengah pada pagi semalam.

"Bagaimanapun, kita akan terus melakukan pemantauan di semua kawasan pesisiran pantai berikutan keadaan laut yang sedikit beralun meskipun cuaca cerah.

"Pelancong telah dibenarkan melakukan aktiviti air, namun anggota APM akan terus melakukan pemerhatian selain memberikan nasihat kepada orang ramai berhubung perkembangan cuaca dari semasa ke semasa," katanya di sini hari ini.

Timbalan Pegawai APM Langkawi, **Leftenan Azamshah Aperial** pula berkata, para pengusaha sukan air seperti jet ski dan paragliding telah dinasihatkan supaya menangguhkan sementara aktiviti tersebut sebagai langkah berjaga-jaga.

Sementara itu, **Jabatan Meteorologi Malaysia** memamatkan amaran ribut tropika Pabuk hari ini setelah kedudukan ribut tropika itu dilihat semakin menjauhi perairan Malaysia dan tidak lagi memberi ancaman kepada negara.

Ketua Pengarahnya, **Ahli Bahari** berkata, ribut tropika itu kini berada di kedudukan 8.9 U 98.2 T dan dijangka bergerak 15 kilometer sejam (kmsj) ke arah barat laut menuju Teluk Benggala.

LAMPIRAN 5
THE STAR (NATION): MUKA SURAT 9
TARIKH: 5 JANUARI 2019 (SABTU)

Pabuk batters the east coast

Northern states must brace for adverse situations as storm passes by

By JO TIMBUONG
and MARTIN CARVALHO
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PETALING JAYA: Strong winds from Tropical Storm Pabuk have wreaked havoc in the seas off Kelantan and Terengganu but those in the west coast, especially in the northern states, should also be bracing for such condition as it moves towards the Andaman Islands.

Pabuk, which started forming in the South China Sea since New Year's Day, has made its way towards Thailand moving at about 20kph and affected northern states such as Perlis, Penang, Kedah and Perak.

Similar to conditions in the east coast states earlier this week, the Meteorological Department warned of strong winds of up to 50kph as well as waves of up to 3.5m occurring in the seas off Kelantan, Perlis, Kedah and Penang.

Checks on the department's website showed that sea and wind conditions would return to safer levels by tomorrow with waves rising up to 1m on the west coast and 1.5m on the east coast.

Wind conditions will also be reduced to up to 20kph in the east and up to 30kph in the west.



Dangerous situation: Youths playing by the beach amid strong waves and rough weather conditions in Pantai Pulau Kundur, Kota Baru. — Bernama

Satellite images from the weather site www.windy.com showed that Pabuk would be making its way past southern Thailand and hit the Andaman Islands tomorrow.

The situation has calmed in

Terengganu yesterday compared to the tempestuous waves which hit its shorelines as Pabuk raged over the state from Wednesday through Thursday.

Civil Defence Force state director

Lt-Kol Che Adam Abdul Rahman said the people could look forward to improved weather conditions in the coming days.

However, he advised against carrying out any activities along the

coast to prevent untoward incidents.

Despite the calmer weather, Lt-Kol Che Adam said they would remain on standby to respond to other emergencies throughout the monsoon season, which is expected to last until March.

Meanwhile, flights by Malaysian carriers were not affected by the storm.

Malindo Air chief executive officer Chandran Rama Muthy said it was monitoring the situation closely, although the company did not operate any flights to the south coast of Thailand.

He said flights were usually not affected by rains and if there were any disruption due to the storm, it would merely result in delays.

A Malaysia Airlines spokesman also confirmed that the carrier had not cancelled any of its domestic flights to the northeast of Malaysia, but was keeping a close watch on the weather conditions.

AirAsia does not operate flights to the affected destination in the southern coast of Thailand, which is handled by local carriers.

Bernama reported that ferry services to Langkawi from Kuala Kedah and Kuala Perlis would be operating as usual.

LAMPIRAN 6
UTUSAN MALAYSIA (DALAM NEGERI): MUKA SURAT 46
TARIKH: 5 JANUARI 2019 (SABTU)

Pabuk: Pengusaha pelancongan teliti cuaca

LUMUT 4 Jan. - Pengusaha sektor pelancongan di daerah ini diingatkan supaya meneliti cuaca dan memahami keadaan laut bagi mengelak kejadian tidak diingini berlaku susulan fenomena ribut tropika Pabuk yang sedang melanda khususnya di beberapa negeri di Semenanjung negara.

Pengerusi Jawatankuasa Penguurusan dan Bantuan

Bencana Daerah, Datuk Mohamad Fariz Mohamad Hanip berkata, pengusaha pelancongan yang terlibat ialah di Pantai Teluk Senangin, Pantai Teluk Batik dan Pulau Pangkor.

Menurutnya, mereka juga perlu mendapatkan nasihat daripada Jabatan Laut dan Jabatan Meteorologi kerana kegagalan untuk mengikuti maklumat berkenaan boleh memberi implikasi buruk kepada mereka.



MOHAMAD FARIZ

“Buat masa ini pihak kami sedang membuat pemantauan secara dekat di Pantai Teluk Nipah kerana benteng penahan ombak perlu dibina disebabkan hakisan yang berlaku.”

“Benteng penahan ombak itu perlu dibina semula dan memerlukan pengubahsuaian untuk mencegah hakisan serta memusnahkan gerai di kawasan tersebut,” katanya se-

lepas Mesyuarat Penyelarasan Berkaitan Penguatkuasaan Wabak Denggi Daerah Manjung di Bilik Gerakan Pejabat Tanah dan Daerah Manjung di sini hari ini.

Mohamad Fariz berkata, pihaknya juga sentiasa bersedia dalam tempoh 24 jam dan dalam apa sahaja situasi.

“Bekalan keperluan untuk hadapi bencana juga kita dah letak di persekitaran dan boleh diambil dengan mudah serta cepat,” katanya.

LAMPIRAN 7
UTUSAN MALAYSIA: MUKA SURAT 49
TARIKH: 5 JANUARI 2019 (SABTU)

JBPM buat persiapan hadapi Ribut Siklon

PUTRAJAYA 4 Jan. - Jabatan Bomba dan Penyelamat Malaysia (JBPM) telah membuat persiapan yang sewajarnya untuk menghulurkan bantuan kecemasan di Pahang, Terengganu dan Kelantan yang dilanda ribut tropika Pabuk.

Jabatan itu dalam kenyataannya berkata, semua negeri melalui Pusat Gerakan Operasi (PGO) juga diarahkan supaya memantau kesiapsiagaan anggota dan aset jabatan termasuk kenderaan darat, air dan udara dalam keadaan baik.

"Selain itu, aset JBPM termasuk kenderaan darat, air dan udara itu juga perlu diletakkan di kawasan yang strategik bagi memudahkan pergerakan apabila berlakunya sebarang kecemasan," kata jabatan itu dalam kenyataan di sini hari ini.

Selain itu, JBPM juga telah mengarahkan balai-balai untuk membuat pemantauan dan rondaan di kawasan pesisir pantai bagi memastikan keadaan sekitar selamat dan tindakan operasi menyelamatkan dapat berjalan dengan lancar dan pantas.

"JBPM juga telah menga-

rahkan pegawai kanan di ibu pejabat jabatan di Putrajaya untuk bertugas secara 'stand-by 24 jam' di Pusat Pengurusan Operasi (PPO) bermula Rabu lalu sehingga hari ini untuk memantau keadaan semasa ribut tersebut.

"Mereka juga bertanggungjawab untuk menguruskan bantuan kecemasan melibatkan anggota dan aset jabatan ke negeri-negeri yang terkesan dengan ribut tropika Pabuk," katanya.

Jabatan Meteorologi Malaysia sebelum ini telah mengeluarkan amaran waspada tahap kuning bagi kawasan pantai timur, negeri-negeri berkenaan akan menerima hujan lebat dan angin kencang pada kelajuan 40 kilometer (km) sejam.

Kawasan perairan berhampiran Kelantan dan Terengganu juga dijangka menerima angin selaju 50-60 km sejam dengan ombak setinggi 4.5 meter, kelajuan itu boleh menyebabkan kerosakan struktur bangunan terutama rumah-rumah di pesisiran pantai, risiko pokok tumbang dan banjir kilat di kawasan yang terlibat.



LAMPIRAN 8
THE STAR (NATION): MUKA SURAT 12
TARIKH: 5 JANUARI 2019 (SABTU)

Lynas appeals against ministry order

Firm invokes legal right to challenge govt directive on transporting residue abroad

KUANTAN: Lynas Malaysia is appealing against the Energy, Science, Technology, Environment and Climate Change Ministry's decision to have the company remove its residue from the country.

The rare earth material producer said that this move was in line with the Atomic Energy Licensing Act in relation to the decision conveyed in a ministry's press statement and in a letter from the Atomic Energy Licensing Board deputy director

dated Dec 4, 2018.

The Act provides for anyone dissatisfied with the decision of the appropriate authority to give notice of appeal within 30 days after being notified of the decision.

"Our preferred course of action remains to resolve these issues through our ongoing discussions with the Malaysian government.

"However, the statute in Malaysia requires that an appeal must be filed within 30 days, otherwise we

may lose some rights of appeal.

"The statute requires that this initial appeal is lodged with the minister," Lynas chief executive officer Amanda Lacaze said in a statement.

She said that key issues in relation to the new condition included the availability of regulatory approvals, the proposed timetable for export of water leach purification (WLP) residue and the significant cost.

"We look forward to continued

discussions with the Malaysian government to resolve these issues. The appeal has been filed to preserve our legal rights while those discussions are ongoing," said Lacaze.

Following an executive review on Lynas' operations in November last year, the ministry decided to impose a new condition that requires the export of WLP residue from Malaysia.

The new condition would be applied to Lynas Malaysia's future

licences or permission renewals.

This was in spite of the review committee's recommendation for Lynas to immediately identify and build a permanent disposal facility for the WLP residue.

Lynas' operating licence is due on Sept 2.

On another matter, Lynas said it was continuing to operate on a business-as-usual basis and production has recommenced following a temporary halt last month.

LAMPIRAN 9
HARIAN METRO (SETEMPAT): MUKA SURAT 6
TARIKH: 5 JANUARI 2019 (SABTU)

Nelayan Melaka boleh turun laut

Melaka: Melaka tidak terjejas dengan kesan ribut tropika Pabuk yang mengancam negeri di pantai timur walaupun beberapa kawasan turut dilaporkan menerima kesan angin kencang yang luar biasa.

Pengarah Jabatan Meteorologi Malaysia (MetMalaysia) negeri Nasrul Hakim Hashim berkata, setakat ini semua aktiviti

di laut termasuk kumpulan nelayan boleh berjalan seperti biasa berikutan tiada kesan langsung terhadap fenomena angin kencang sejak Rabu lalu.

“Boleh dikatakan Melaka tiada kesan langsung terhadap ribut tropika Pabuk ini yang sedikit terkena tempas di negeri sebelah Pantai Timur Semenanjung.

“Kecuali, ribut yang

membawa angin kencang ini menuju ke arah Mersing, Johor, ia berkemungkinan. Faktor Banjaran Titiwangsa juga antara benteng yang menghalang kebanyakan angin dari Laut China Selatan pada monsun timur laut,” katanya ketika ditemui di pejabatnya di sini, semalam.



LAMPIRAN 10
HARIAN METRO (SETEMPAT): MUKA SURAT 9
TARIKH: 5 JANUARI 2019 (SABTU)



NELAYAN, Muhammad Idzham Nazri mengemas peralatan menangkap ikan di dalam bot miliknya ekoran amaran ribut tropika Pabuk di jeti nelayan Seberang Kota, Kuala Kedah.

PENANGAN PABUK

JAUHI PANTAI

■ Ribut tropika dijangka landa Langkawi hari ini

Zuliaty Zulkiffli
cnews@nstp.com.my

Alor Setar

Kawasan utara negeri ini terutamanya di Pulau Langkawi dijangka menerima tempias ribut tropika Pabuk hari ini.

Pengarah Angkatan Pertahanan Awam Malaysia (APM) Kedah, Lef-tenan Kolonel (PA) Awang Askandar Ampuan Yaacob berkata, berdasarkan ramalan Jabatan Meteorologi Malaysia (MetMalaysia), ribut itu dijangka melanda Pulau Langkawi bermula jam 2 petang.

Beliau berkata, sehubu-

ngan itu, semua penduduk dan pelancong di Langkawi dinasihat menjauhi kawasan pantai bagi mengelak kemungkinan buruk.

“Ombak dijangka tinggi esok (hari ini) dan aktiviti memba-bitkan bot kecil, rekreasi dan menangkap ikan tidak di-galakkan.

“Anggota APM akan me-lakukan tinja-uan di empat me-nara pantai iaitu di Pantai Chenang, Pulau Pa-yar dan Pantai Pantaj se-lain satu di Kuala Muda bagi memastikan kesela-matan awam,” katanya, semalam.

Awang Askandar berka-ta, kesan ribut itu dijangka menyebabkan pokok tum-bang dan angin kencang yang boleh mengancam keselamatan orang ramai.

“Oleh itu, kami nasihati orang ramai supaya sen-tiasa ber-hati-hati terutama mereka yang ting-gal di tepi laut,” kata-nya.

Maklumat lan-jut boleh menghubungi Pusat Kawalan Operasi Daerah (PKOD) di talian 04-9663309 (Langkawi) dan 04-4235682 (Kuala Muda).

FAKTA
Ramalan MetMalaysia
ribut dijangka melanda
Pulau Langkawi bermula
jam 2 petang

LAMPIRAN 11

BERITA HARIAN (RIBUT): MUKA SURAT 13

TARIKH: 5 JANUARI 2019 (SABTU)

Kereta dihempap pokok tumbang

Kuala Terengganu: "Ini kali pertama saya meletakkan kereta berhampiran pokok dan tak sangka pula terjadi insiden kereta dihempap pokok tumbang," kata Dr Abd Halim Abd Manan, 26, selepas kereta Perodua Myvi miliknya dihempap pokok di Pantai Batu Buruk di sini, semalam.

Dr Abd Halim yang bertugas di Jabatan Obstetrik dan Ginekologi (O&G) Hospital Sultanah Nur Zahirah (HSNZ) di sini, berkata beliau meletakkan keretanya berhampiran pokok rhu berkenaan kira-kira jam 6.40 pagi kerana parkir dalam dan luar hospital itu penuh.

"Saya masuk kerja jam 7 pagi. Ketika lakukan rondaan di wad kira-kira jam 9.30 pagi, jururawat datang beritahu kereta saya dihempap pokok.

Gotong-royong selamatkan bot

Di **Kuala Nerus**, sekumpulan nelayan di Kampung Kolam bergotong-royong menyelamatkan bot gantian kaca masing-masing di persisiran Pantai Mengabang Telipot bagi mengelakkan kerosakan atau dihanyutkan ombak besar.

Tinjauan mendapati lebih 20 nelayan bekerjasama mengalihkan bot gantian kaca ke kawasan yang lebih tinggi.

Rozi Husin, 48, berkata, kehadiran ribut Pabuk memburukkan lagi keadaan di kawasan pantai.

Azmi Hamid, 50, berkata, sebelum ini air pasang besar dan ribut yang berlaku secara tiba-tiba kerap menghanyutkan bot gantian kaca yang diletakkan di tepi pantai membuatkan nelayan serik dan sentiasa berwaspada.

Pengarah Angkatan Pertahanan Awam Malaysia (APM) Terengganu, Lef Kol (PA) Che Adam A Rahman berkata, amaran berjaga-jaga berikutan ribut Tropika Pabuk sudah ditamatkan jam 10 pagi semalam selepas keadaan cuaca semakin baik.

"Bagaimanapun segala aktiviti di kawasan pantai dan laut diminta ditangguhkan terlebih dahulu sehingga keadaan cuaca pulih sepenuhnya.

Di **Bachok**, kira-kira 1,200 nelayan daerah itu terpaksa 'mengikat perut' apabila sudah seminggu tidak turun ke laut akibat ancaman ribut tropika siklon Pabuk.

Pengerusi Persatuan Nelayan Kawasan Bachok, Mohd Saripudin Isahak berkata, nelayan tidak keluar ke laut kerana berjaga-jaga selepas amaran dikeluarkan Jabatan Meteorologi.

Katanya, kebiasaannya, mereka mampu meraih hasil tangkapan sekitar RM2,000 ke RM3,000 seminggu.

"Nelayan terpaksa menggunakan simpanan yang mereka ada apatah lagi perbelanjaan diperlukan bagi anak-anak memasuki sesi persekolahan dan urusan harian keluarga, namun keselamatan diri harus diutamakan," katanya.

Di **Tumpat**, keadaan ombak di Pantai Geting disini masih tinggi walaupun cuaca agak baik selepas ribut tropikal Pabuk mabadi beberapa kawasan di negeri ini sejak semalam.

Tinjauan mendapati ombak masih tinggi mabadi pantai yang membahayakan untuk aktiviti laut.

LAMPIRAN 12
BERITA HARIAN: MUKA SURAT 8
TARIKH: 5 JANUARI 2019 (SABTU)

MPOB terima IKM Laboratory Excellence Platinum Award

Oleh Hajar Musa

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Kuala Lumpur: Makmal Perkhidmatan Analitikal Oleokimia, Lembaga Minyak Sawit Malaysia (MPOB) menerima anugerah IKM Laboratory Excellence Platinum Award daripada Institut Kimia Malaysia (IKM) pada awal Disember lalu, di sini.

Anugerah ini adalah penghargaan kepada makmal yang berjaya mengekalkan anugerah IKM Excellence Award selama 20 tahun berturut-turut sejak tahun 1999.

Penyampaian anugerah disampaikan Timbalan Menteri Tenaga, Sains, Teknologi, Alam Seki-

tar dan Perubahan iklim, Isnaraisah Munirah Majlis.

IKM Excellence Award adalah anugerah tahunan dan diberikan kepada makmal di Malaysia yang memberi perkhidmatan berkualiti, cekap serta mematuhi peraturan dalam menjaga aspek keselamatan dan kesihatan pekerjaan di tempat kerja.

Ikut keperluan standard MS ISO/IEC 17025:2005

Makmal berkaitan dinilai dari segi pengamalan sistem pengurusan kualiti mengikut keperluan standard MS ISO/IEC 17025:2005.

Dengan sokongan dan komitmen pihak pengurusan MPOB serta kecekapan kakitangan, Makmal

PRESENTATION OF IKM AWARDS



Pegawai Penyelidik Fadzlina Abdullah mewakili MPOB menerima anugerah IKM daripada Isnaraisah Munirah Majlis.

Perkhidmatan Analitikal ini juga pernah menerima anugerah IKM Excellence Silver Award pada tahun 2009 dan anugerah IKM Excellence Gold Award pada tahun 2013.

Perhatian terperinci dan teliti diberi terhadap penjagaan dan penyediaan sampel yang akan diuji membolehkan MPOB menerima

anugerah terbabit.

Keputusan ujian dipastikan boleh diterima pakai dalam menjamin pematuhan kepada peraturan ketat makmal berkenaan.

Berdasarkan keperluan keselamatan dan kesihatan yang digariskan oleh IKM, makmal perlu mempunyai kemudahan serta beroperasi

dengan jaminan keselamatan yang baik.

Kakitangan perlu mematuhi garis panduan keselamatan, penggunaan peralatan perlindungan keselamatan.

Penggunaan bahan kimia dan pengurusan sisa bahan kimia dapat dikelola dengan baik.

LAMPIRAN 13
BERITA HARIAN (SIHAT): MUKA SURAT 73
TARIKH: 5 JANUARI 2019 (SABTU)

Inovasi rawatan pergigian untuk pesakit kurang upaya

➔ Kaedah Stance Wheel memudahkan prosedur, beri keselesaan

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Aduan pesakit orang kelainan upaya (OKU) yang mendakwa kurang selesa setiap kali mendapatkan rawatan memberi inspirasi Bahagian Kesihatan Pergigian Perlis untuk mencipta sesuatu bagi menanginya.

Mendapat sokongan Majlis Rekabentuk Malaysia (MRM) bersama Kementerian Tenaga Sains, Teknologi, Alam Sekitar dan Perubahan Iklim (MESTECC), terhasilah Stance Wheel.

Stance Wheel, peralatan inovatif direka khas untuk pesakit berkerusi roda. Prosedur boleh dilakukan secara langsung dengan keselesaan pesakit.

Jika sebelum ini, pesakit terpaksa dipindahkan daripada kerusi roda ke kerusi rawatan pergigian yang memerlukan dua atau lebih kaki tangan untuk melakukannya, tetapi kini tidak lagi.

Kini kerusi roda akan diikat pada Stance Wheel bagi mengekalkan kedudukannya. Begitu juga pesakit dipakaikan tali pinggang keselamatan supaya ia tidak bergerak ketika



[FOTO AHMAD IRHAM MOHD NOOR / BH]

Dr Boon Chye mencuba kerusi roda selepas merasmikan majlis pelancaran pengkomersialan produk inovasi Stance Wheel sambil diiringi Ketua Setiausaha Kementerian Kesihatan, Datuk Seri Dr Chen Chau Min.

prosedur dilakukan.

Menariknya, Stance Wheel boleh dilaraskan sehingga 45 darjah, iaitu kedudukan sebenar pesakit gigi menerima rawatan. Namun, ia boleh dicondongkan maksimum sehingga 75 darjah.

Produk diiktiraf

Stance Wheel dipatenkan sebagai peralatan kesihatan mengikut Akta Peranti Kesihatan 2012 dan diiktiraf Kementerian Kesihatan Malaysia (KKM) serta Sirim.

Sementara itu, Timbalan Menteri Kesihatan, Dr Lee Boon Chye, berkata sehingga kini 10 unit Stance Wheel ditempatkan di semua klinik

pergigian di Perlis, manakala satu di Hospital Kajang.

"Inovasi ini memudahkan golongan berkerusi roda mendapatkan rawatan di klinik pergigian dan beberapa kali meraih kejayaan inovasi peringkat negeri mahupun kementerian.

"Diumumkan sebagai johan kategori Teknikal pada Konvensyen Kumpulan Kreatif dan Inovatif (KIK - KKM) peringkat kebangsaan pada 2015, mewakili kementerian pada Majlis Persada Inovasi Perkhidmatan Awam peringkat Kebangsaan pada tahun yang sama.

"Projek ini juga terpilih Indikator Prestasi Petunjuk (KPI) Tahun Pengkomersialan Malaysia pada 2016. Kemuncaknya apabila perjanjian pengkomersialan dimeterai



Inovasi ini memudahkan golongan berkerusi roda mendapatkan rawatan di klinik pergigian dan beberapa kali meraih kejayaan inovasi peringkat negeri mahupun kementerian"

Lee Boon Chye,
Timbalan Menteri Kesihatan

bersama Medical Apparatus Supplies Sdn Bhd (MASSB) Jun tahun lalu," katanya.

Bagi Pengarah Urusan MASSB, Md Azar Ismail, pihaknya menyasarkan 2,000 unit Stance Wheel dikeluarkan pada 2019 untuk pasaran tempatan dan luar negara.

Beliau berkata, kerjasama MASSB-KKM, membolehkan kemudahan ini ditempatkan di semua klinik pergigian kerajaan di seluruh negara, selain dihantar sampel ke persatuan pergigian bagi tujuan ujian.

"Untuk pasaran luar negara, Dubai antara yang berminat bagi mendapatkan peralatan perubahan dan kami akan ke sana tahun depan bagi memeterai perjanjian," katanya.



Fakta nombor

Stance Wheel

10 UNIT
ditempatkan klinik pergigian di Perlis, satu di Hospital Kajang

195 KILOGRAM
bebanan maksimum mampu ditampung

LAMPIRAN 14
 NEW STRAITS TIMES (NEWS/NATION): MUKA SURAT 8
 TARIKH: 5 JANUARI 2019 (SABTU)

YELLOW-STAGE WARNING

NORTHERN STATES ON ALERT

Perlis, Kedah, Penang brace for strong winds, heavy rain as tropical storm Pabuk heads for Thailand

ADIB POVERA AND BEATRICE NITA JAY
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STATES in the peninsula's northern region are bracing for strong winds and heavy rain as the tropical storm Pabuk leaves the east coast and heads towards Thailand.

The Meteorological Department director-general Alui Bahari said a yellow-stage warning had been raised for Perlis, Kedah and Penang.

He said heavy rain was expected in the three states as the storm crossed Segenting Kra to the Andaman sea.

He said a similar warning was issued for Hulu Perak, Kerian, Larut, Matang and Selama in Perak.

The yellow-stage warning was



Fishermen pushing a boat ashore in Kuala Nerus, Terengganu, yesterday. PIC BY IMRAN MAKHZAN

an indicator of heavy rains to come in one or two days.

"As the storm heads towards the Andaman sea, it will trigger heavy rainfall in states in the peninsula's northern region.

"Strong winds of more than 40kph are expected in these

states, causing damage to unstable structures, as well as triggering risks of falling trees."

The advisory was initially issued on Thursday and would be enforced until today for the affected states.

Up to 3pm yesterday, Alui said

the tropical storm was moving closer to Segenting Kra with a speed of 20kph.

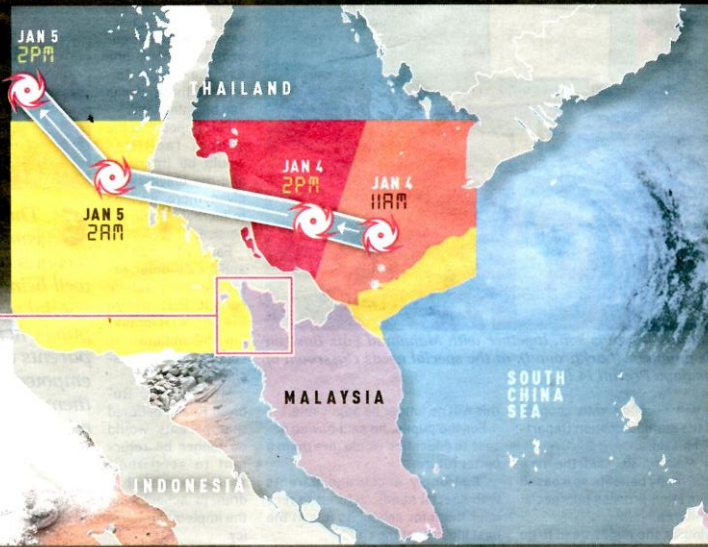
"The tropical storm is 239km from Arau (Perlis) and 288km from Kota Baru (Kelantan).

"The movement of the storm is expected to trigger strong winds

of 50kph, with waves of up to 3.5m expected to hit the waters off Kelantan, Perlis, Kedah and Penang. The condition of strong winds and rough seas is dangerous to all shipping and coastal activities, including fishing, ferry services and oil rigs."

PABUK TROPICAL STORM ADVISORY

Strong winds of more than 40kph are expected in Perlis, Kedah, Penang and Perak, causing damage to unstable structures, as well as triggering risks of falling trees. The movement of the storm is expected to trigger strong winds of 50kph with waves of up to 3.5m over the waters of Kelantan, Perlis, Kedah and Penang.



Category	KPH	Height of Waves	
		Metre	Feet
First (Yellow)	40-50	2.5-3.5	8.2-11.5
Second (Orange)	50-60	3.5-4.5	11.5-15.0
Third (Red)	> 60	> 4.5	> 15.0

FIRST CATEGORY

- a. Strong winds and rough seas were expected at Samui eastern waters last night.
- b. Strong winds and rough seas are expected in Phuket, the northern side of Malacca straits, Perlis, Kedah and Penang today

SECOND CATEGORY

Strong winds and rough seas were expected at Samui eastern waters last night.

THIRD CATEGORY

Pabuk tropical storm is currently in the gulf of Thailand and will cross over the Kra Isthmus Canal. Strong winds and rough seas are expected at Samui western waters.

INFOGRAPHIC NST



LAMPIRAN 15 BERITA HARIAN (RIBUT): MUKA SURAT 12 & 13 TARIKH: 5 JANUARI 2019 (SABTU)

Nelayan di Kuala Nerus memindahkan bot tempam selamat.



(FOTO BASU, AZLI SAMAD/BB)

Ombak besar berserta angin kencang di Pantai Puteri, Tanjung Kling akibat tempas ribut tropika Pabuk yang melanda sebahagian besar Pantai Timur.



(FOTO BOZAHAN ZAKARIA/BB)



Pokok tumbang menghempap dua kereta Myvi di pantai Batu Buruk berhampiran Hospital Sultanah Nur Zahirah, di Kuala Terengganu.

Penduduk cemas amaran Pabuk

• Aktiviti pantai di lokasi tumpuan pelancong tak dibenar elak tragedi

Oleh **Pettah Wazzan Iskandar, Suzalina Halid, Fazrik Kamarudin dan Zulfitri Zulkifli**
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Penduduk pulau ini cemas semalam, susulan amaran ribut tropika Pabuk yang diramal melanda kawasan itu mulai jam 2 petang. Amaran itu dikeluarkan Pengarah Angkatan Pertahanan Awam Malaysia (APM) Kedah, Left Kol (PA) Awang Asandar Agipuan Yaacob yang menerima laporan Jabatan Meteorologi Malaysia (MetMalaysia).

Dayang Bunting bagi 970 pelancong yang sudah membuat tempahan, sehingga keadaan cuaca kembali pulih. Dilaporkan juga, seramai 186 pelancong luar negara terkandas di Koh Lipe, Thailand selepas feri yang sepatutnya membawa mereka ke Langkawi pada jam 1.30 tengah hari semalam dibatalkan susulan amaran berkenaan. Bagaimanapun, Pejabat Meteorologi Pulau Pinang petang semalam, memaklumkan ribut tropika Pabuk tidak akan membadai Pulau Langkawi secara terus, sebaliknya pulau perangnya itu hanya akan menerima kesan sampingan.

Jarak 200 kilometer Pengarahnya, Ling Ieong Kwok, berkata ini kerana kedudukan angin ribut berada pada jarak 200 kilometer (km) ke utara, sekali gus mustahil bagi ia membadai Langkawi secara terus. Sehubungan itu, beliau berkata, penduduk dan pelancong di Langkawi tidak perlu panik dengan keadaan itu, namun mereka perlu berhati-hati dengan angin kuat dan hujan, kesan daripada pinggirannya itu. "Ribut Pabuk ini sekarang berada di Laut China Selatan menyebabkan cuaca agak buruk di Pantai Timur dan ia sedang bergerak ke barat laut ke Teluk Siam dan dijangka akan melintasi Seenting Kra dan masuk ke Laut Andaman. "Jadi ia tidak akan membadai

Langkawi kerana pulau itu hanya berada di kawasan pinggirannya ribut Pabuk kerana kedudukan angin ini berada 200 km ke sebelah utara, jauh untuk ia membadai Langkawi. "Jadi penduduk dan pelancong di Langkawi perlu bertenang," katanya ketika dihubungi NSTP, di sini, semalam. Sementara itu, tinjauan di Langkawi lewat petang semalam, mendapati penduduk kembali melakukan aktiviti seperti biasa. Pengusaha bot dikenali sebagai Rani, 34, berkata dia baru selesai membawa sebuah keluarga membuat lawatan pulau selama empat jam.

Setia hadapi kemungkinan Di **Kuala Lumpur**, Jabatan Bomba dan Penyelamat Malaysia (JBPM) dalam satu kenyataan berkata semua balai bomba berkaitan membuat rondaan pantai bagi menghadapi sebarang kemungkinan. Katanya, semua negeri melalui Pusat Gerakan Operasi (PGO) diarahkan memantau kesiapsiagaan anggota dan aset jabatan termasuk kenderaan darat, air dan udara dan ditempatkan di kawasan strategik bagi memudahkan pergerakan apa-

bila kecemasan. "Pegawai kanan di Ibu Pejabat JBPM Putrajaya diarahkan bertugas secara standby 24 jam di Pusat Pengurusan Operasi (PPO) sejak 2 Januari sehingga esok bagi memantau keadaan semasa operasi Ribut Siklon Tropika. "Selain itu, pegawai berkenaan juga akan menguruskan bantuan kecemasan yang disebabkan anggota dan aset jabatan ke negeri-negeri yang terdampak. "Tiga negeri yang terkesan dengan ribut Siklon Tropika itu adalah Pahang, Terengganu dan Kelantan sudah mengambil tindakan seperti yang diarahkan oleh Ibu Pejabat JBPM iaitu membuat rondaan dan memberi khidmat nasihat kepada orang awam yang berada di tepi pantai tentang bahaya ribut itu," katanya.

Menurut kenyataan itu lagi, Ribut Tropika dijangka membadai Kelantan dan Terengganu yang akan menerima hujan lebat dan angin kencang pada kelajuan 40 kilometer sejam sehingga boleh memberi kerosakan kepada struktur bangunan terutama rumah di pesisiran pantai, risiko pokok tumbang dan banjir kilat di kawasan terdesa. Kawasan yang disenaraikan terjejas adalah Jajahan Tumpat, Kota Bharu, Pasir Puteh, Pasir Mas, Machang, Tanah Merah, Kelantan dan Kuala Krai di Kelantan manakala daerah Bestari, Setia, Kuala Nerus, Hulu Terengganu, Kuala Terengganu dan Marang di Terengganu.



Anggota Angkatan Pertahanan Awam Malaysia (APM) Langkawi membuat rondaan di sekitar Pantai Chenang.



Seorang kanak-kanak melarikan diri selepas ombak besar di Pantai Pulau Kundur, Kota Bharu, Kelantan.



Ketua Balai Bomba dan Penyelamat Bachok, Peralong Pengusaha Bomba, Yus Hery Muhamad memacak bendera merah sebagai amaran ribut Pabuk di Pantai Irama.

LAMPIRAN 16
NEW STRAITS TIMES (OPINION): MUKA SURAT 12
TARIKH: 7 JANUARI 2019 (ISNIN)

PROGRESS

HIGH TECH AND CHOCS

Promote use of biotech as catalyst for genetic diversification



ZAKRI ABDUL HAMID

EVEN if they possess an abundance of natural resources, developing countries like Malaysia will forever play second fiddle to developed countries if they lack mastery of science and technology.

A case in point: a recent news report from the United States describing how the candy giant Mars, makers of the Snickers brand bar, M&M's and other popular chocolate products, secured the services of a biotech company to help breed a cacao tree resilient to the growing threats of climate change and disease.

It is an intriguing development well worth noting in Malaysia.

Howard Shapiro, the chief agricultural officer for Mars, was quoted as saying that 40 per cent of the world's cacao crop is lost each year to fungal, viral, and pest problems.

The biotech firm will equip the Mars' company cacao experts with software that will help tap into the cacao tree's natural genetic diversity and analyse how to rapidly find genetic lines that are more able to cope with unfavourable growing conditions.

The approach can shave years off the development process, simulating offspring and using machine learning to predict their quality. Combined with other advances like gene editing and sequencing, high technology is creating new agricultural opportunities.

Other crops hit by disease or other threats include bananas, papayas, and oranges – all grown largely in monocultures. As one

expert said: "We've got to get deliberate about tapping into that natural genetic diversity."

The article points up the need for a critical introspection in Malaysia on the use of biotech as a catalyst for much-needed genetic diversification. This has got to be one of the main missions of the Malaysian Bioeconomy Development Corporation in the era of a New Malaysia. The same goes for the Malaysian Industry-Government Group for High Technology as far as areas in high technology are concerned. It is about future-proofing the nation amid the rapid technological advances taking place around us.

In the Fourth Industrial Revolution, big data and artificial intelligence are among many technological developments that will hold sway. It is wise, therefore, to look out for these advances which may have an impact on our livelihood in the future.

We have been playing catch-up with the developed countries for far too long. We need to review our plans and reassess how we want to move forward, mobilising the myriad sources of human talent present in our multi-cultural midst and preparing our younger generation to face the challenges of the future.

There are already successful role models. Malaysians making their presence felt on the global stage include, for example, Tan Sri Lim Wee Chai, the executive chairman and founder of Top Glove Corporation Bhd, the company that controls 25 per cent of the world market for rubber gloves. He was once quoted as saying, Malaysia "must speed up a move to more value-added production".

While the country has shifted focus – from tin and rubber industries that were the bedrock of the colonial economy to the electronics factories and palm oil plantations of today – the transformation needs to go further, he says. He has also proposed building "more chocolate factories rather than more cocoa plantations". An ardent advocate of research and development (R&D), Lim employs about 120 researchers in-house, believing in the simple adage of "no research, no future".

Smaller and cheaper-cost rivals in the region, like Vietnam, are reducing the competitive advantage of Malaysian manufacturers and becoming bigger contenders for foreign investment. Our companies are still too labour intensive, productivity's low, and mechanisation rates trail Thailand and Singapore.

We need to continue the growth of investments in our educational system in science, technology, engineering and mathematics (STEM) while not neglecting the social sciences and humanities, producing more high-quality university graduates that are industry-ready, spending more on R&D, and improving our governance structure in science if we are serious about not getting stuck in the "middle income quagmire".

Malaysia doesn't grow much cocoa, but it has become the continent's No. 2 processor by grinding beans imported from Indonesia.

Malaysia has 51 chocolate manufacturers and confectioneries and 194 local chocolate producers, selling about RMI.1 billion a year. In comparison, the cocoa it cultivated last year was valued at US\$5 million when calculated using average futures prices for 2016.

In the 2018 Global Competitiveness Report released last October by the World Economic Forum, Malaysia rose one notch to the 25th spot out of 140 countries surveyed. Malaysia was one of the only three non-high-income economies featured in the Top 40. The other two were China (28th) and Thailand (38th).

As we start the new year, let us hope for Malaysia's continued progress towards advanced nation status, characterised by a workforce well-educated in the sciences and the humanities, drawing strength from our diverse ethnic composition and able to create value-added products in an increasingly competitive world economy.

The writer, a distinguished fellow of the Washington D.C.-based Global Federation of Competitiveness Council, is former director of the United Nations University's Institute of Advanced Studies in Tokyo

LAMPIRAN 17
THE STAR (VIEWS): MUKA SURAT 20
TARIKH: 7 JANUARI 2019 (ISNIN)

Authorities must walk the talk

IN many areas in Selangor and Kuala Lumpur, big plastic bags are being used to hold twigs, leaves and other garden refuse before they are collected for disposal.

What baffles me and, I'm sure, many citizens, is the fact that these plastic bags are actually being used by contractors who have been given the task of clearing roadsides and dividers of such debris.

Every time I see these plastic bags, I wonder why they are being used when single-use plastic bags have already been banned.

I believe that it sends the wrong message to the public that it is still all right to use such plastic bags although there are various biodegradable and environmentally friendly alternatives.

The local authorities must walk the talk when dealing with single-use plastic bags. This is important since the government is working hard to educate the public and raise awareness of the danger of plastic pollution.

In May last year, Housing and Local Government Minister Zuraida Kamaruddin said it would take at least a year to educate the public before the government could introduce a nationwide ban on plastic bags.

Zuraida was quoted in the media as saying that the awareness level is still low, despite bans already being enforced in many states and territories, including Penang, Kuala Lumpur, Putrajaya, Selangor, Melaka and Johor.

Penang, which was the first state in Malaysia to initiate the "No free plastic bags" campaign in July 2009, has also planned to increase the charge for each plastic bag from 20 sen to 50 sen to help encourage the public to use reusa-



ble bags. Other states like Selangor have followed suit.

The rampant use of plastic bags by landscaping and garbage collecting firms until today reflects the attitude of Malaysians who want everything to be easy instead of finding a better solution, such as using bamboo baskets that can be reused many times (apart from also being biodegradable).

In the federal government's Roadmap Towards Zero Single-use Plastics 2018-2030 announced in October 2018, it was revealed that Malaysia is a global player in the plastics industry with currently about 1,300 plastics manufacturers.

As at 2016, our exports amounted to RM30bil, which saw 2.26 million metric tonnes of resin utilised to produce plastics.

The roadmap also exposed that environmental problems related to plastic waste have become a major problem in Malaysia, which has been ranked as eighth among the top 10 countries with mismanaged plastic waste in the world.

A study estimated that Malaysia has produced 0.94 million tonnes of mismanaged plastic waste, of which 0.14 to 0.37 million tonnes may have been washed into the oceans.

Plastic pollution is now a global problem and must be addressed in

a sustainable manner by balancing economic growth with environmental protection, in line with the United Nation's Sustainable Development Goals, which Malaysia subscribes to.

It is important to note that more than 60 countries have already introduced some measures to curb single-use plastic waste, such as imposing bans and levies.

We must support the government's plans to address single-use plastics by encouraging the plastics industry to produce eco-friendly products. It will ensure the industry will adopt green technologies while safeguarding the environment.

The roadmap prepared by the

Energy, Science, Technology, Environment and Climate Change Ministry should be used as a guide towards zero single-use plastics in Malaysia in a holistic manner.

Under the roadmap, Malaysia will eliminate single-use plastics by 2030. Although some quarters have expressed concerns that the 12-year timeline is simply too long to be effective, it actually covers all aspects, including offering suggestions to plastics manufacturers on how they can transition to alternatives and preparing them to produce more eco-friendly products.

The success of this comprehensive roadmap depends on support from all stakeholders, namely the state governments, manufacturers, suppliers, business operators, non-governmental organisations and the public.

We may reach the target earlier than 2030 if all parties play their roles responsibly. This includes discarding lackadaisical attitudes that prompt us to take the easy way out by continuing the use of single-use plastic bags.

I hope all government agencies and their contractors, at the very least, will from now on find a better alternative to single-use plastic bags. We must look for environmentally friendly products to help us achieve the target sooner than expected.

Government agencies and the local authorities must lead by example to help reduce plastic pollution including banning the use of plastic bags at all levels – including by their own contractors – and not only among shoppers.

TAN SRI LEE LAM THYE
Social activist
Kuala Lumpur

LAMPIRAN 18
KOSMO (NEGARA): MUKA SURAT 4
TARIKH: 7 JANUARI 2019 (ISNIN)

Kastam perlu kenal pasti sisa plastik import

BUKIT MERTA JAM - Kementerian Perumahan dan Kerajaan Tempatan (KPKT) mahu Jabatan Kastam Diraja Malaysia (JKDM) membuat pemeriksaan lebih teliti bagi memastikan setiap kontena yang membawa sisa plastik ke dalam negara mematuhi prosedur serta peraturan baharu berkaitan sisa plastik yang ditetapkan kementerian.

Mentérinya, Zuraida Kamaruddin berkata, pihaknya akan memberikan taklimat dan meningkatkan aspek pengenalan bahan plastik kepada pihak JKDM bagi membolehkan mereka mengenal pasti sisa plastik yang diimport masuk.

“KPKT melaksanakan beberapa syarat dan peraturan baharu berhubung import sisa plastik, jadi saya mahu pihak JKDM membuat pemeriksaan lebih teliti selepas ini bagi memastikan pengimport mematuhi syarat ditetapkan.

“Macam siasatan kami dalam kes penemuan 175 kontena penuh berisi dengan bahan buangan plastik yang tidak diisytihar dan tidak mendapat permit import (AP) KPKT tersangkut di Terminal Kontena, Pelabuhan Pulau Pinang pada November lepas, yang mendapati pengimport tidak bertanggungjawab



ZURAIDA mendengar penjelasan staf mengenai sisa plastik ketika melakukan tinjauan di kilang UDA Materials Sdn. Bhd. di Bukit Mertajam semalam.

membuat deklarasi palsu berhubung bahan yang dibawa masuk bagi mengelak ditahan pihak berkuasa,” katanya.

Beliau berkata demikian ketika membuat lawatan ke pusat pemrosesan sisa plastik di UDA Materials Sdn. Bhd. di

sini semalam.

Katanya, semua kontena yang masih belum dituntut itu kini terkandas di situ dan pihaknya mengambil tindakan menghantar semula ke negara asal.
- Bernama

LAMPIRAN 19
THE STAR (NATION): MUKA SURAT 15
TARIKH: 7 JANUARI 2019 (ISNIN)

Govt looking at grading system for plastic waste industry

BUKIT MERTAJAM: The government will look into developing a grading system for facilities processing plastic waste to better regulate the industry, says Housing and Local Government Minister Zuraida Kamaruddin.

She said factories which import clean plastic and process them directly without cleaning them would be given a first-class grade.

"Under the new ruling, the factories can only import plastic waste from advanced countries such as those in Europe, from the United States, Japan and Australia.

“

The data will be collected for future development of the industry. Under the new regulation, we put a fee of RM50 per tonne.

Zuraida Kamaruddin

”

"The grading will also look into whether the factories and facilities are capable of matching their capacity," she told on Saturday.

Zuraida said the grading is meant to encourage the factories to bring in clean plastic as dirty plastic can cause environmental pollution.

She said that out of 58 companies whose approved permits were frozen last July, only eight complied with the regulations and were allowed to resume operations.

Zuraida, who earlier visited two factories in Kedah and three factories in Penang, said the ministry was looking into the industry holistically to ensure they comply with the guidelines.

"There will be more info by the factories such as where their products would be exported to and a fee to be imposed for imported plastic waste. The data will be collected for future development of the industry. Under the new regulation, we put a fee of RM50 per tonne," she said.

In July last year, the ministry revoked the permit on plastic waste imports, affecting 114 legal plastic waste factories all over Malaysia for three months up to Oct 23.

The move was made after reports of serious pollution in Kuala Langat, Selangor, which was allegedly caused by factories processing plastic waste.

LAMPIRAN 20 UTUSAN MALAYSIA (FORUM): MUKA SURAT 19 TARIKH: 7 JANUARI 2019 (ISNIN)

Larang guna straw demi manfaat masa hadapan

SAUDARA PENGARANG,

BULAN ini bermulalah larangan penggunaan straw plastik di semua kedai makan di Wilayah Persekutuan Kuala Lumpur, Putrajaya dan Labuan.

Idea melarang penggunaan bahan plastik tersebut hangat diperkatakan netizen di awal pengumuman.

Ramai yang menyokong namun tidak kurang juga mencemuh dengan memuat naik pelbagai gambar dan *troll* berkenaan isu tersebut.

Biar pun isu larangan penggunaan straw plastik telah sunyi dalam kalangan orang ramai, namun perlaksanaannya tetap diteruskan di tiga kawasan tersebut.

Tiga wilayah yang disenaraikan akan menjadi kayu ukur terhadap keberkesanan dasar yang telah dilaksanakan.

Namun kerajaan tetap perlu melaksanakan kajian yang menyeluruh berkaitan larangan tersebut.

Antaranya aspek penawaran alternatif straw plastik daripada sumber tumbuhan sebagaimana yang telah dicadangkan.

Adakah pengeluarannya mencukupi untuk permintaan di dalam jangka masa panjang?

Dalam pada itu, bagi kita yang gemar menikmati hidangan di kedai, larangan penggunaan straw plastik akan terkesan di jiwa.

Mana tidaknya, penggemar minuman berair biasanya akan menyedut minuman itu menggunakan straw di dalam gelas panjang yang disediakan.

Bagaimanapun jika dilihat dari sudut sejarah, penggunaan straw pada zaman dahulu tidaklah ketara, malah mungkin tiada.

Mereka hanya meneguk air dari cawan dan gelas. Kaedahnya sungguh mudah. Besar kemungkinan mereka hanya minum minuman panas dan suam.

Dan ia pula disediakan isteri di rumah dan bukan diminum di kedai.

Namun kini, apabila berganti zaman dengan kehidupan moden, straw menjadi pilihan kerana kita berada di dalam ruang dan situasi

yang berbeza.

Kebanyakan kita menjadikan warung dan kedai mamak sebagai destinasi wajib setiap hari.

Oleh itu, kita tidak boleh elak daripada menggunakan gelas yang telah digunakan oleh pelanggan sebelumnya.

Maka meneguk air daripada gelas yang telah digunakan oleh pelanggan lain mungkin agak menjengkelkan, namun dengan adanya straw ia menjadi lebih praktikal.

Bagaimanapun, penggunaan straw plastik memberi kesan negatif kepada alam sekitar.

Ini kerana straw yang telah digunakan akan bercampur bersama sisa makanan dan sampah termasuk bahan plastik yang lain apabila ia dibuang.

Sampah yang tidak diurus dengan baik dan tidak dikitar semula akan menjadi ancaman kepada alam sekitar dalam jangka masa panjang.

Walaupun straw dihasilkan daripada bahan plastik *thermo* yang mudah dicairkan dan dibentuk semula, namun adakah kita sudah bersedia dengan kaedah untuk mengitar semula penggunaan straw tersebut.

Adakah semua rakyat Malaysia boleh mengasingkan sisa-sisa pepejal di rumah sebelum membuangnya?

Malangnya ada yang masih tidak mengetahui dan tidak mengambil peduli akan isu ini.

Cadangan penggunaan straw mesra alam daripada bahan bukan plastik adalah sangat digalakkan.

Bahan boleh urai yang dihasilkan daripada tumbuhan seperti kertas, buluh dan jagung boleh dijadikan sebagai alternatif kepada straw plastik yang ada pada hari ini.

Rakyat pada amnya perlu memberi kerjasama rapat dengan mengambil tindakan progresif untuk menjaga alam sekitar bagi manfaat negara di masa hadapan.

**JULIANA MOHD. ABDUL
KADIR**

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Universiti Teknologi Mara
(UiTM), Johor

LAMPIRAN 21
SINAR HARIAN (NASIONAL): MUKA SURAT 12
TARIKH: 7 JANUARI 2019 (ISNIN)

Hanya 19 mohon permit AP

Syarikat proses plastik kitar semula perlu mohon semula

SITI ZUBAIDAH ZAKARAYA

SUNGAI PETANI

Hanya 19 permohonan baharu lesen import (AP) proses barangan plastik kitar semula diterima daripada keseluruhan 114 syarikat seluruh negara.

Menteri Perumahan dan Kerajaan Tempatan, Zuraida Kamaruddin berkata, lesen itu dibekukan sejak Julai 2018 dalam tempoh tiga bulan sebelum penambahan prosedur baharu dan beberapa

syarat ketat dilaksanakan.

Katanya, daripada jumlah keseluruhan pemegang AP, hanya 54 sahaja aktif memproses plastik kitar semula, namun hasil pemeriksaan mendapati hanya lapan syarikat memenuhi kriteria ditetapkan.

"Kesemua 114 pemegang lesen AP ini kena mohon semula selepas kita bekukan.

"Setakat ini ada 19 yang memohon tetapi sebelum diluluskan, saya nak tengok kalau nampak operasi bertepatan dengan apa yang kita nak, saya akan luluskan kerana tidak mahu merugikan potensi industri kitar semula plastik ini, yang mana ia memberi pulangan menguntungkan kepada negara," katanya ketika pemeriksaan mengejut di sebuah kilang memproses plastik kitar semula di Kawasan Perusahaan



Pemeriksaan mengejut dilakukan di sebuah kilang yang menjalankan kegiatan memproses plastik kitar semula.

Sungai Petani, semalam.

Hadir sama, Ketua Pengarah Jabatan Pengurusan Sisa Pepejal, Ismail Mokhtar.

Zuraida berkata, Malaysia boleh menjadi pemain utama

kerana industri itu menyumbang RM30 bilion kepada pendapatan negara dan RM600 bilion di peringkat antarabangsa.

"Kalau kita buat dengan

baik, ia akan menjadi pendapatan buat negara, cuma kena buat betul-betul.

"Masyarakat perlu faham antara plastik sampah dengan plastik kualiti yang kita

import, ia berbeza," katanya.

Sementara itu katanya, pemeriksaan ke atas kilang yang menjalankan kegiatan itu sejak setahun lalu mendapati, besar kemungkinan ia beroperasi tanpa kebenaran.

"Kita lihat memang ketara ada kerja memproses plastik yang tidak ada kebenaran, kerana mereka buka lesen dengan PBT, adalah bawah aktiviti berbeza.

"Kita difahamkan, syarikat ini beroperasi waktu malam tetapi malam ini tiada kerja dijalankan, dengan bantuan PBT kita dapat masuk. Kalau ikutkan pendaftaran memang kilang ini tidak mendaftar sebagai salah satu syarikat kita luluskan import plastik," katanya.

Beliau meminta PBT berbincang dengan pengusaha terbabit untuk tindakan selanjutnya.

LAMPIRAN 22

THE STAR (CAMPUS): MUKA SURAT 10

TARIKH: 6 JANUARI 2019 (AHAD)

UMS scientist in Antarctica

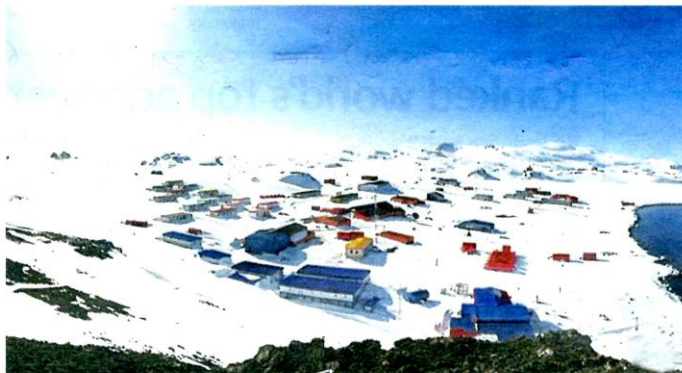
MALAYSIAN atmospheric scientist Assoc Prof Dr Justin Sentian is in Antarctica in the Austral summer to carry out a climate and atmospheric science research project.

Dr Justin who is a Universiti Malaysia Sabah (UMS) lecturer, is the first Malaysian scientist to collaborate with the Chinese Arctic and Antarctic Administration (CAA) in a research expedition at the Great Wall Station, Antarctica. He left Malaysia and travelled to Punta Arena in Chile on Dec 14 and arrived in King George Island, Antarctica four days later.

He will be at Wall Station for more than a month, and is expected to return to Malaysia by the end of January.

The main objective of the collaborative research expedition is to investigate the vertical stratospheric ozone transport in the polar region into the upper troposphere layer, commonly known as Stratosphere-Troposphere Exchange (STE).

In addition to the downward fluxes of ozone from the stratosphere into the troposphere, other factors affecting the tropospheric ozone chemistry will be investigated, such as climate change and the enhancement of other chemical constituents such as short lived halogenated halocarbons.



Dr Justin is conducting research at the Great Wall Station, Antarctica and is expected to return home at the end of January.

Sensitivity analyses could also provide a better insight into which of those factors are more important to the net production of tropospheric ozone.

He said the research output will enhance the understanding of the oxidation capacity status of the polar atmosphere under changing climate scenarios.

The potential sources of the halocarbon can also be determined and helps to understand the roles of these compounds in polar tropospheric chemistry.

Tropospheric ozone, a secondary pollutant as well as an important greenhouse gas, is generally understood to be generated largely from photochemistry reactions.

However, a substantial amount of ozone has also been found to be transported from the stratosphere.

"This downward flux is not only a constituent of the main transport mechanism, but is also responsible for stratospheric ozone depletion and significant input of reactive species into the

tropospheric chemical system," he said.

In Antarctica, Dr Justin said it was found that ozone in the troposphere largely originates from the stratosphere through a variety of processes known as stratosphere-troposphere exchange (STE). However, he added that the investigation into the roles of future climate scenarios in STE and tropospheric ozone chemistry in the polar region remains relatively limited.

"This limited understanding of these combined effects on future tropospheric ozone in the polar region warrants a strategic research approach combining field measurements (meteorology, trace gases, vertical ozone profiles and halocarbons) and modelling (climate model, atmospheric chemistry and transport model).

"This Antarctic collaborative research aims to investigate the occurrence of the STE phenomenon and to characterise the tropopause and tropospheric ozone chemistry," he added.

Dr Justin said this research will significantly contribute to the global community's ongoing efforts towards understanding the potential sources and chemistry of tropospheric ozone under future climate scenarios.

LAMPIRAN 23
THE STAR (EVENTS): MUKA SURAT 18
TARIKH: 5 JANUARI 2019 (SABTU)



Selected Sunway malls are giving out metal straws to shoppers to effect a little change which can hopefully go a long way.

'It's over, plastic!'

Mall gives out metal straws to encourage shoppers to go green

WE HAVE found a new love – with metal straws!

That was Sunway Malls' declaration as it started 2019 by saying "goodbye" to plastic straws.

In line with the Government's decision to ban plastic straws in the Federal Territories, Sunway Malls has introduced metal straws which can be redeemed from participating malls.

Its decision to "break up" with plastic straws is congruent with its pledge for a greener future.

Some of the tenants are also

doing away with plastic straws as well.

Aside from metal, biodegradable paper straws are available at Maison de Gigi, Caffè Bene Malaysia, Juicy Fresh Juice Bar, and The Coffee Bean & Tea Leaf.

Other shops such as Coffea Coffee, Chai Yó, Regiustea, NY Steak Shack, PappaRich, Sunny Queen, Ten Years, Madam Kwan's and Starbucks have also introduced sustainable options to replace plastic straws.

Some tenants have decided to remove plastic straws altogether while some are rewarding cus-

tomers who bring their own straws.

Shoppers simply need to spend RM100 in two receipts to be eligible to redeem their personal metal straws from the concierge counters of each mall.

The metal straws can be redeemed at Sunway Pyramid, Sunway Velocity Mall, Sunway Putra Mall and Sunway Carnival Mall.

"Out with the plastic, in with the metal! We are excited to introduce metal straws which will be available to shoppers with a very minimal spend

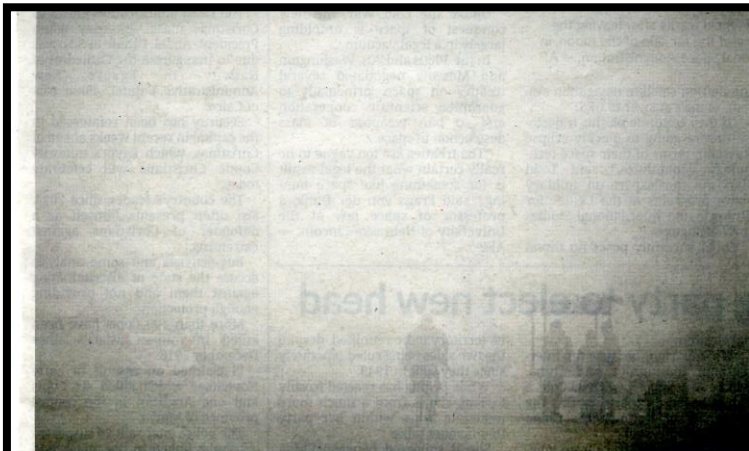
when they come to Sunway Malls," said Sunway Malls chief operation officer Kevin Tan.

"With metal straws, we hope to instil a greater sense of responsibility and sustainability towards the environment through a conscious effort of reducing daily plastic consumption in our shoppers lives.

"This is a part of our continuous effort for the betterment of the future and we hope our shoppers will also see the value in this campaign.

"A little change goes a long way."

LAMPIRAN 24
THE STAR (WORLD): MUKA SURAT 27
TARIKH: 7 JANUARI 2019 (ISNIN)



Barely visible: People going about their daily work on a morning thick with smog on the outskirts of India's capital of New Delhi. — AP

Rain clears smog in New Delhi, but air quality still 'very poor'

NEW DELHI: A rainy spell brought better air to residents of New Delhi, giving them a brief respite from thick grey smog that has shrouded the Indian capital for the last two months, although air quality continued to be "very poor".

A measure of tiny, hazardous breathable particles known as PM 2.5 reached an average of 182 by noon yesterday, the Central Pollution Control Board said, its lowest since Nov 4.

But pollution was still five times more than a US government recommended level of 35 to stand at "unhealthy" levels, according to the US embassy.

"Change in weather conditions by rain or higher wind speed helps dissipate peak pollution, but we continue to need strong emergency actions such as shutting power plants," said Anumita Roychowdhury, an officer with the Centre for

Science and Environment think-tank.

The federal government air quality index rated Delhi's air quality "very poor" yesterday and had a similar forecast for Monday, urging people with respiratory and cardiac problems to avoid polluted areas and limit outdoor movement.

A sharp drop in temperatures and wind speed over the last two weeks, combined with vehicle and industrial emissions, dust from building sites and smoke from garbage burning has stoked pollution over much of north India.

Levels of PM 2.5 hit their highest last year at 450 on Dec 23.

Despite the pollution, there is little sign Delhi's residents are taking steps to protect themselves.

Activists say the apparent lack of concern gives politicians the cover they need for not tackling the issue adequately. — Reuters

LAMPIRAN 25
SINAR HARIAN (GLOBAL): MUKA SURAT 48
TARIKH: 7 JANUARI 2019 (ISNIN)

Korban terus meningkat

Ribut badai tengah, timur Filipina akibatkan tanah runtuh, banjir besar

MANILA

Jumlah kematian akibat ribut yang melanda Filipina tidak lama selepas sambutan Hari Natal baru-baru ini telah meningkat kepada 126 orang, menurut pihak berkuasa, semalam.

Ribut tersebut membadai tengah dan timur Filipina pada 29 Disember lalu dan menyebabkan tanah runtuh serta banjir besar.

"Lebih 100 terkorban di kawasan pergunungan Bicol di tenggara Manila. Angka kematian dijangka meningkat kerana 26 lagi dilaporkan



Lebih 152,000 penduduk hilang tempat tinggal.

masih hilang" kata pegawai bencana wilayah.

Jelasnya, ramai penduduk

enggan meninggalkan rumah masing-masing kerana cuti panjang sempena sambutan Hari Natal.

Difahamkan, ramai penduduk gagal mengambil langkah berjaga-jaga kerana ribut itu tidak terlalu kuat untuk dikategorikan sebagai taufan di bawah sistem amaran kerajaan.

Agensi bencana kerajaan memaklumkan lebih 152,000 penduduk hilang tempat tinggal manakala 75 lagi cedera dalam kejadian ribut itu.

Jumaat lalu, Presiden Rodrigo Duterte turut melawat kawasan terjejas dan menggesa pembinaan pusat pemindahan berbanding menggunakan sekolah dan pusat perlindungan menempatkan mangsa.

Pada 2013, taufan terburuk, Haiyan yang menyebabkan kemusnahan besar telah mengakibatkan lebih 7,360 maut atau hilang di seluruh tengah Filipina. - AFP

LAMPIRAN 26
KOSMO (DUNIA): MUKA SURAT 41
TARIKH: 7 JANUARI 2019 (ISNIN)

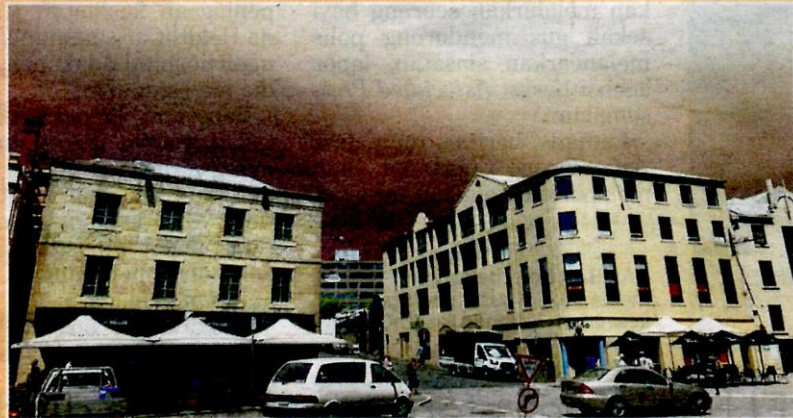
Langit Tasmania bertukar warna jingga akibat kebakaran hutan

HOBART, Australia – Sebahagian langit Tasmania bertukar menjadi warna jingga akibat kebakaran hutan sehingga menyebabkan penduduknya terpaksa melarikan diri ke tempat lebih selamat pada Jumaat lalu.

Kepulan asap tebal menjulang tinggi dari Kawasan Warisan Dunia Hutan Tasmania yang dijilat api itu turut menyebabkan pesawat yang dijadualkan mendarat di Hobart terpaksa dilencongkan ke bandar Launceston akibat cuaca buruk.

Pemilik kediaman Tyenna River Cottage, John Youd memberitahu agensi berita AAP bahawa langit pekan Tyenna, hampir 80 kilometer dari Hobart, bertukar 'merah dan kelihatan marah' namun masih ada kelihatan tompokan langit biru di antara kepulan asap itu.

"Dalam masa satu jam sahaja asap

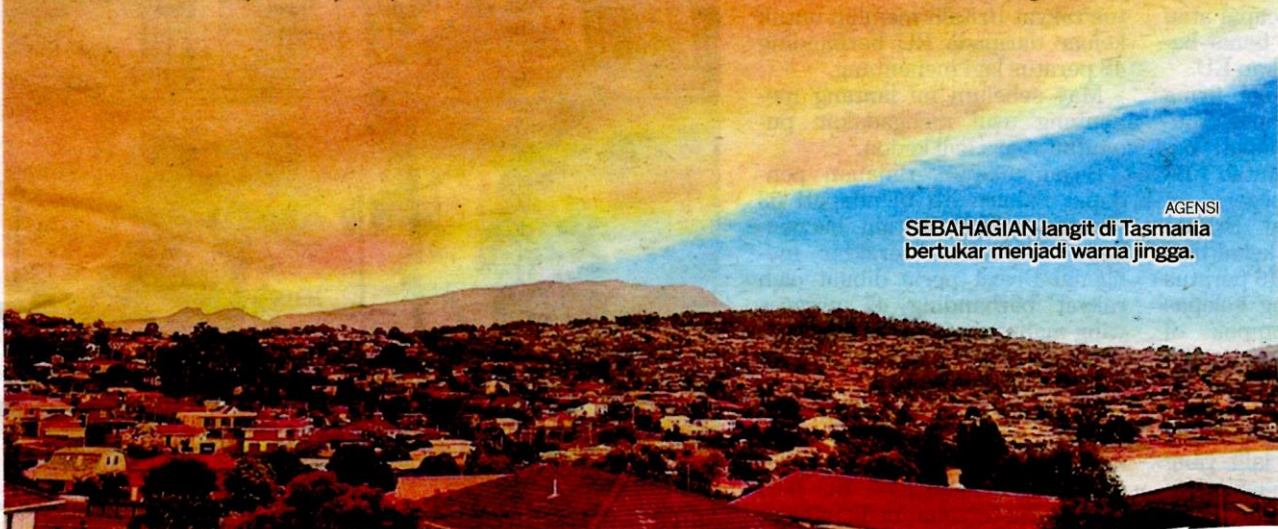


KEPULAN asap jelas kelihatan akibat kebakaran hutan menyelubungi bandar Hobart, Tasmania di Australia baru-baru ini.

AGENSI

tebal itu mengubah warna langit menjadi sangat merah. Ketika itu kami tahu sudah sampai masanya untuk menyelamatkan diri," kata pemilik kafe, Rachel Power kepada rangkaian berita ABC.

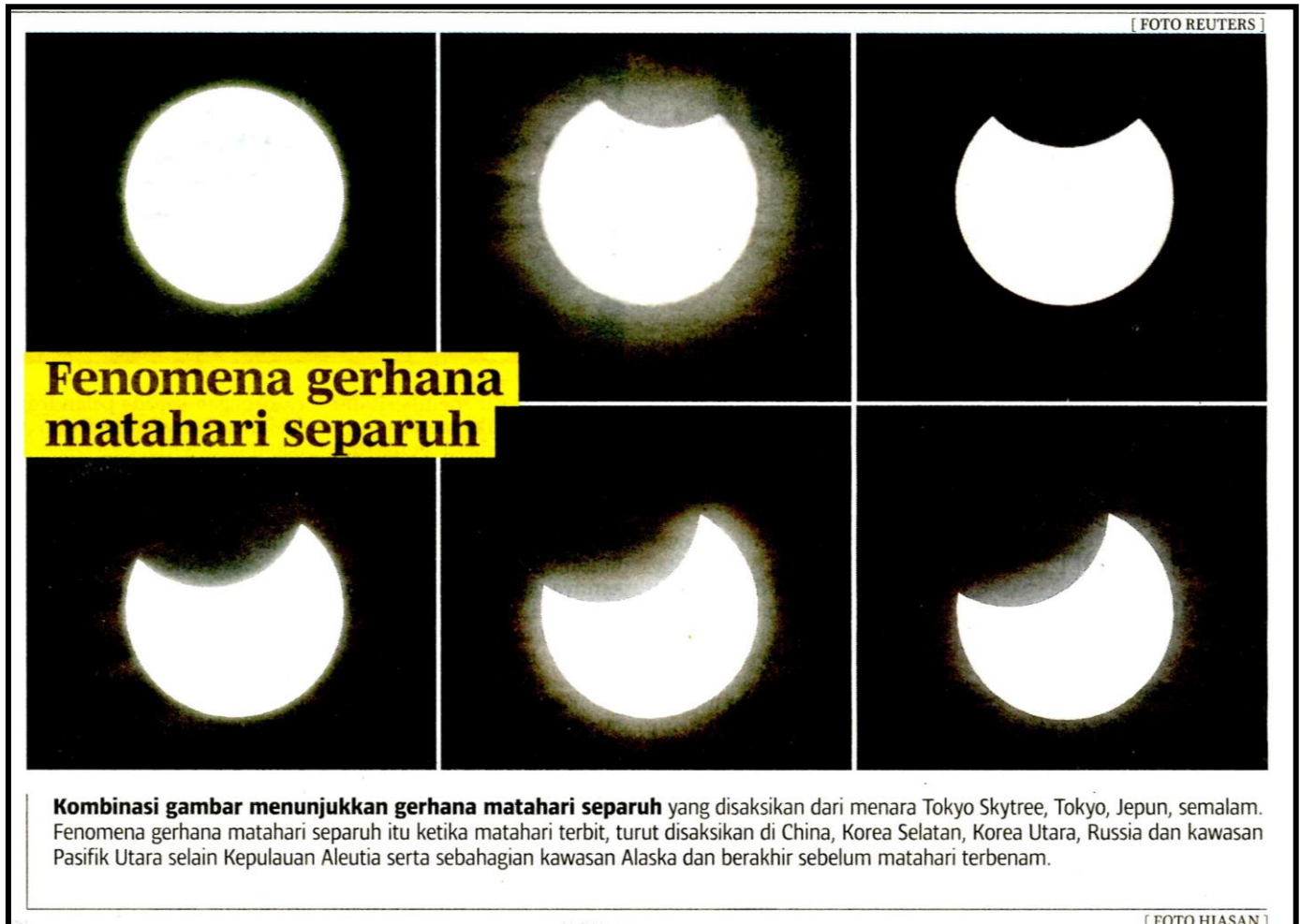
Kebakaran itu telah memusnahkan 88 kilometer persegi hutan dengan serpihan arang, debu dan asap tebal menyelubungi kawasan sekitar termasuk Gunung Field, Freycinet dan Pulau Maria. – Agensi



SEBAHAGIAN langit di Tasmania bertukar menjadi warna jingga.

AGENSI

LAMPIRAN 27
BERITA HARIAN (DUNIA): MUKA SURAT 66
TARIKH: 7 JANUARI 2019 (ISNIN)



LAMPIRAN 28
MINGGUAN MALAYSIA (LUAR NEGARA): MUKA SURAT 70
TARIKH: 6 JANUARI 2019 (AHAD)

Merapi muntahkan lahar 1.2 km

JAKARTA 5 Jan. - Gunung Berapi Merapi di Yogyakarta dan Jawa Tengah di Indonesia memuntahkan lahar dan debu, semalam hingga menyebabkan beberapa perkampungan di daerah Klaten diselubungi debu dari gunung tersebut.

Menurut Pusat Penyelidikan dan Pembangunan Teknologi Bencana Geologi (BPPTKG), gunung berapi itu mula mengeluarkan lahar pada pukul 9.01 malam tadi waktu tempatan.

Katanya, pancutan lahar keluar kira-kira 150 saat dan turun sejauh 1.2 kilometer (km) dari puncak Merapi.

Perkampungan yang terjejas adalah di mukim Kemalang, di daerah Klaten yang terletak kira-kira lima kilometer dari Merapi.

Portal *Dream.co.id* melaporkan, Ketua Agensi Pengurusan Bencana Wilayah (BPBD) Klaten, Bambang Giyanto dipetik sebagai berkata, pasukan bertindak BPBD telah mula mengedarkan topeng muka sebagai langkah pencegahan kepada penduduk



PASANGAN suami isteri menunggang motosikal di Balerante, Kemalang, Klaten, Jawa Tengah yang letaknya 3.5 kilometer dari Gunung Merapi, baru-baru ini. - **AGENSI**

kampung yang terkesan akibat pelepasan debu itu.

“Buat masa ini, semua aktiviti pendakian di gunung itu dihentikan sementara waktu kecuali untuk tujuan penyelidikan,” katanya kepada pemberita di sini hari ini.

Gunung Merapi adalah antara gunung berapi yang masih aktif

di Indonesia dan dilaporkan pernah meletus sebanyak 69 kali sejak 1548.

Letusan yang paling dahsyat dikatakan berlaku pada 1006, 1786, 1822, 1872 dan 1930 yang mengakibatkan 1,400 orang terbunuh dan 13 perkampungan musnah. - **AGENSI**

LAMPIRAN 29
MINGGUAN MALAYSIA (LUAR NEGARA): MUKA SURAT 69
TARIKH: 6 JANUARI 2019 (AHAD)

AHAD • 06.01.2019

LUAR NEGARA

luarnegara@utusan.com.my



■ BANGKOK 5 JAN.

BANGKOK 5 Jan. - Ribuan penduduk di selatan Thailand mula kembali ke rumah masing-masing dan operasi perniagaan kembali seperti biasa selepas Siklon Tropika Pabuk yang membadai negara ini semalam mula memasuki Laut Andaman.

Ribut terburuk dalam tempoh 30 tahun yang membawa angin kencang dengan kelajuan 75 kilometer sejam itu mengakibatkan sekurang-kurangnya 30,000 penduduk di selatan Thailand dipindahkan ke pusat perlindungan sementara, semalam.

"Bumbung di beberapa bilik rumah saya hilang dan rumah saya kini dipenuhi lumpur," kata seorang penduduk Talum Puk, BoonChhuay Chuayssi.

Pabuk sebagaimana lapor BBC melalui pantai timur Thailand berhampiran kepulauan Ko Phra Thong pada pukul 7 pagi waktu tempatan hari ini dan sedang menuju ke selatan Laut Andaman dan kepulauan Nicobar.

Angin kencang yang dibawa oleh Pabuk turut mengakibatkan pokok elektrik sekali gus mencetuskan gangguan bekalan elektrik kepada kira-kira 200,000 orang penduduk.

Sehingga hari ini, kira-kira 30,000 penduduk masih belum menerima sambungan elektrik.

Portal CNN melaporkan, angka korban akibat Siklon Tropika Pabuk meningkat kepada tiga orang termasuk dua warga emas akibat lemas di Nakhon Si Thammarat.

Seorang lagi lelaki juga dikatakan mati selepas dihempap pokok ketika mangsa berada di rumahnya di Nakhon Si Thammarat, bagaimanapun laporan itu masih belum disahkan lagi.

Bagaimanapun beberapa kawasan peranginan utama seperti Koh Samui, Koh Phangan dan Koh Tao disahkan selamat daripada tempas ribut kencang ini.

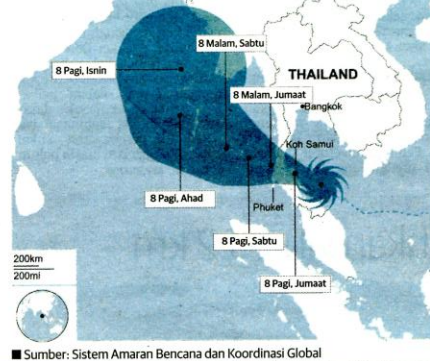
Lapangan Terbang Koh Sa-

Pabuk tinggalkan memori duka buat Thailand

Siklon Tropika Pabuk

- Membawa angin kencang sehingga 65 hingga 90 kilometer sejam.
- Menyebabkan ombak besar setinggi lima hingga tujuh meter.
- Menjadi siklon tropika pertama melanda di luar musim monsun sejak 1989.
- Beberapa ramalan menyifatkan Pabuk sebagai ribut paling teruk dalam tempoh beberapa generasi.
- Menyebabkan hujan lebat sehingga 300 milimeter.
- Kira-kira 200,000 penduduk terpaksa bekalan elektrik.
- 30,000 penduduk dipindahkan ke pusat pemindahan sementara.

Laluan Siklon Tropika Pabuk



■ Sumber: Sistem Amaran Bencana dan Koordinasi Global



SEORANG lelaki menikmati makanan di rumahnya yang dinaiki air selepas dilanda Siklon Tropika Tabuk di wilayah Nakhon Si Thammarat, semalam. - AFP

mui, Nakhon Si Thammarat dan Surat Thani sudah dibuka kepada orang ramai dengan beberapa penerangan tambahan namun dilaporkan masih berlaku kelewatan.

Ketua Daerah Koh Samui, Kittipon Roddon berkata, setakat ini tiada sebarang korban dilaporkan di daerah itu dan pelancong kini boleh beransur pulang secara berperingkat ekoran keadaan cuaca yang semakin baik.

"Semuanya sudah tamat, kesemua 10,000 pelancong selamat dan saya lega," katanya.

Sementara itu, Jabatan Meteorologi memberi amaran kepada kapal supaya terus berada berhampiran pantai selepas angin kencang dan ombak setinggi lima meter dijangka berlaku di Laut Andaman. - AGENSI



DUA kanak-kanak bermain dengan lampu suluh di pusat pemindahan yang terputus bekalan elektrik di wilayah Nakhon Si Thammarat, kelmarin. - AFP

LAMPIRAN 30

NEW SUNDAY TIMES (SUNDAY VIBES/LIVING): MUKA SURAT 26

TARIKH: 6 JANUARI 2019 (AHAD)

ON a sweltering Wednesday in June, a rail-thin woman named Rehmati gripped the doctor's table with both hands. She could hardly hold herself upright, the pain in her stomach was so intense. She'd travelled for 26 hours in a hot oven of a bus to visit her husband, a migrant worker here in New Delhi. By the time she got to the capital, the city was an oven too: 43°C by lunchtime, and Rehmati was in an emergency room.

The doctor, Reena Yadav, didn't know exactly what had made Rehmati sick, but it was clearly linked to the heat. Dr. Yadav suspected dehydration, possibly aggravated by fasting during Ramadan. Or it could've been food poisoning, common in summer because food spoils quickly. Yadav put Rehmati, 31, on a drip. She held her hand and told her she'd be fine. Rehmati leaned over and retched.

Extreme heat can kill, as it did by the dozens in Pakistan in May. But as many of South Asia's already-scorching cities get even hotter, scientists and economists are warning of a quieter, more far-reaching danger: Extreme heat is devastating the health and livelihoods of tens of millions more. If global greenhouse gas emissions continue at their current pace, heat and humidity levels could become unbearable, especially for the poor.

It's already making them poorer and sicker. Like the Kolkata street vendor who squats on his haunches from fatigue and nausea.

Like the woman who sells water to tourists in Delhi and passes out from heatstroke at least once each summer. Like the outdoor workers who become so weak or so sick that they routinely miss days of work, and their daily wages.

"These cities are going to become unlivable unless urban governments put in systems of dealing with this phenomenon and make people aware," said Sujata Saunik, who served as a senior official in the Indian Ministry of Home Affairs and is now a fellow at the Harvard University School of

Killer heat

In India, summer heat may soon be literally unbearable, writes Somini Sengupta

Public Health. "It's a major public health challenge."

A recent analysis of climate trends in several of South Asia's biggest cities found that if current warming trends continued, by the end of the century, wet bulb temperatures — a measure of heat and humidity that can indicate the point when the body can no longer cool itself — would be so high that people directly exposed for six hours or more wouldn't survive.

WORRYING SCENARIO

For the country's National Disaster Management Agency, alarm bells rang after a heat wave struck the normally hot city of Ahmedabad, in western India, in May, 2010 and temperatures soared to 48°C. It resulted in a 43 per cent increase in mortality, compared to the same period in previous years, a study by public health researchers found.

Since then, in some places, local governments, aided by the Natural Resources Defense Council, an advocacy group, have put in place simple measures. In Ahmedabad, for instance, city-funded vans distribute free water during the hottest months. In the eastern coastal city of Bhubaneswar, parks are kept open in afternoons so outdoor workers can sit in the shade. Occasionally, elected officials post heat safety tips on social media. Some cities that had felled trees for construction projects are busy planting new ones.

The science is unequivocally worrying. Across the region, a recent World Bank report concluded, rising temperatures could diminish the living standards of 800

million people.

Rohit Magotra, deputy director of Integrated Research for Action and Development, is trying to help the capital, Delhi, develop a plan to respond to the new danger. The first step is to quantify its human toll. "Heat goes unreported and underreported. They take it for granted," Magotra said. "It's a silent killer."

On a blistering Wednesday morning, with the heat index at 43°C, he and a team of survey takers snaked through the lanes of a working-class neighbourhood in central Delhi. They measured temperature and humidity inside the brick-and-tin apartments. They spoke to residents about how the heat affects them.

"Only by 4am when it cools down, can we sleep," a woman named Kamal told him. Her husband, a day labourer, suffered heatstroke this year, missed a week's work, and, with it, a week's pay.

A shopkeeper named Mohammed Naeem said that while he managed to stay cool in his ground-floor space, his father's blood pressure rose every summer, as he sweltered in their top floor apartment all day.

A woman named Abeeda told Magotra that she helped her husband cope during the summer by stocking glucose tablets in the home at all times. Her husband works as a house painter. Even when he's nauseous and dizzy in the heat, he goes to work. He can't afford not to.

Across town, workers covered their faces with bandannas as they built a freeway extension for Delhi's rapidly growing number of cars. The sky was hazy with dust.

Skin rash, dry mouth, nausea, headaches: These were their everyday ailments, the construction workers said. So debilitating did it get that every 10 to 15 days, they had to skip a day of work and lose a day's pay.

Ratnesh Tihari, a 42-year-old electrician, said he felt it getting hotter year by year. And why would that be surprising? He pointed his chin at the freeway extension he's helping to build. "It's a fact. You build a road, you cut down trees. That makes it hotter."

HEAT IS ON

Some cities are getting hotter at different times of year. The average March-to-May summertime heat index for Hyderabad had risen by 0.69 degrees per decade between 1951 and 2010. In Kolkata, a delta city in the east, where summers are sticky and hot anyway, the monsoon is becoming particularly harsh: The city's June-September heat index climbed by 0.26°C per decade.

Joyashree Roy, an economist at Jadavpur University in Kolkata, found that already, most days in the summer are too hot and humid to be doing heavy physical labour without protection, with wet-bulb temperatures far exceeding the thresholds of most international occupational health standards.

And yet, walk through the city on a stifling hot day in June, and you'll find people pedaling bicycle rickshaws, hauling goods on their heads, constructing towers of glass and steel. Only a few people, like herself, said Roy, are protected in air-conditioned homes and offices. "Those who can are doing this. Those who can't are becoming worse. The social cost is high in that sense."

TINKERING WITH SOLUTIONS

In Ahmedabad, city funds have been used to slather white reflective paint over several thousand tin-roofed shanties, bringing down indoor temperatures. In Hyderabad, a similar effort is being tested. A pilot project by a team of engineers and urban planners covered a handful of tin-roofed shacks with white tarpaulin.

It brought down indoor temperatures by at least two degrees, which was enough to make the intolerable tolerable. Now they want to expand their cool-roof experiment to a 1-square-kilometre patch of the city, installing cool roofs, cool walls and cool sidewalks, and planting trees. Their main obstacle? Funding.

Rajkiran Bilolikar, who led the cool-roof experiment, has a personal stake in the project. As a child, he'd visit his grandfather in Hyderabad. There were trees all over the city. It was known for its gardens. He could walk, even in summer.

Now a professor at the Administrative Staff College of India in Hyderabad, Bilolikar can't walk much. His city is hotter. There are fewer trees. Air-conditioners have proliferated but they spew hot air outside.

Bilolikar says it's hard to persuade policymakers, even the public, to take heat risk seriously. It's always been hot in Hyderabad. It's getting hotter slowly, almost indistinguishably.

At home, he'd resolved not to use his air-conditioner. Through his open windows, though, his neighbour's machine blew hot air into his apartment. His three-year-old daughter became so overheated that her skin was hot to touch. Reluctantly, he shut his windows and turned his machines on.

NYT



LAMPIRAN 31
THE STAR (WORLD): MUKA SURAT 32
TARIKH: 6 JANUARI 2019 (AHAD)

Thailand suffers floods and blackouts after storm

NAKHON SI THAMMARAT: Floods and blackouts caused by Tropical Storm Pabuk left nearly 30,000 people in evacuation shelters across southern Thailand, as relieved tourists stranded on islands further north were spared the worst and began to plot routes home.

Pabuk, a once in three-decades weather system, packed winds of up to 75kph and brought heavy rains and storm surges as it lashed the entire south of the kingdom late on Friday, downing power cables and causing widespread flooding.

A fisherman died in southern Pattani province early Friday as high waves smashed into his boat and another crew member was reported missing.

But the storm tacked away from the key tourist islands of Koh Samui, Koh Phangan and Koh Tao where

large numbers of tourists hunkered down for 24 hours in heavy rains, unable to leave as airports closed and ferry services were cancelled.

"There were no casualties, there is some sunshine today and I'm confident some tourists will be able to leave today as ferries and flights resume," Kittipop Roddon, Koh Samui district chief said.

But "red flag" warnings banning swimming off what are normally sun-baked paradise beaches at this time of year were still in place.

"It's all over. All 10,000 tourists are safe... I am relieved," said Krikkrai Songthane, district chief of neighbouring Koh Phangan, an island famed for its full-moon parties, adding only minor damage had been caused by high winds.

But holidaymakers keen to leave the islands faced long delays as transport networks were slowly

reopened yesterday.

Pabuk made landfall on Friday in Nakhon Si Thammarat province, south of the tourist hubs on the Gulf of Thailand, hammering the coastal province with rain.

Authorities warned of flash floods as some parts remained inundated by a combination of rainfall and storm surges.

Around 200,000 people were left without power as dozens of electricity poles were toppled by high winds or falling trees.

Some 30,000 customers remained without power yesterday, according to an update by the Disaster Prevention and Mitigation Department.

Pabuk struck in peak tourist season, a blow to the cash-cow sector that is integral to Thailand's economy. The kingdom is expected to welcome a record 40 million visitors this year. — AFP



Sunken vessel: Locals looking at a sunken fishing boat because of bad weather due to tropical storm Pabuk in the southern Thai province of Narathiwat. — AFP

LAMPIRAN 32
NEW STRAITS TIMES (WORLD): MUKA SURAT 55
TARIKH: 5 JANUARI 2019 (SABTU)

Smoke from an out-of-control bushfire, burning in a Tasmanian Wilderness World Heritage Area in southwest Tasmania, clouding the sky at Salamanca Place in Hobart, Australia, yesterday.
EPA PIC



TEMPERATURE RISING

Heatwave wilts Australia's southeast

SYDNEY: A heatwave sweeping Australia engulfed the southeast yesterday, boosting temperature records, spurring fire bans and arousing concern about the health of contestants in this month's tennis Open.

A week after Australia's hottest town, in its northwest, recorded its hottest day, sweltering tem-

peratures arrived on the other side of the continent, pushing the southeastern city of Melbourne to a near-record 42°C.

Regions to the north were expected to be hotter and windy, prompting a fire ban across the state of Victoria.

Nine years earlier, Australia's bushfires killed 180 people near

cities forecast to experience temperatures of 46°C yesterday.

"The conditions are there that if a fire was to start, it could be quite difficult to contain," said Tom Delamotte, a Bureau of Meteorology forecaster.

In Hobart, capital of the nearby island state of Tasmania, which is usually the country's coolest, the

mercury rose as high as 40°C, two degrees from a January record.

Pictures on social media showed a dark-orange sky over Hobart as a bushfire swept the wilderness nearby. Campers were evacuated from the affected area, the Australian Broadcasting Corp said, though no injuries were reported. **Reuters**

LAMPIRAN 33 HARIAN METRO (GLOBAL): MUKA SURAT 40 TARIKH: 5 JANUARI 2019 (SABTU)



OMBAK ganas menghempas jeti di Surat Thani. - AFP



TIANG elektrik jatuh di sepanjang jalan. - Reuters



POKOK tumbang akibat ribut tropika Pabuk. - Reuters

PABUK MENGAMUK

Seorang terbunuh, selatan Thailand porak-peranda dibadai ribut tropika

Reuters
Bangkok

Seorang terbunuh akibat ribut Pabuk yang melanda Teluk Siam yang membawa ombak setinggi lima meter, angin kencang menumbangkan pokok dan bumbung rumah serta banjir akibat hujan lebat semalam.

Menurut kenyataan agensi bencana Thailand, seorang kru bot nelayan terbunuh selepas bot berkenaan karam dipukul ombak dekat pantai wilayah Pattani. Seorang lagi kru masih hilang namun empat lagi nelayan terselamat.

Ribut tropika itu melanda daerah Pak Phanang di wilayah Nakhon Si Thammarat menyebabkan banyak kerosakan.

Sebelum ini, jabatan kaji cuaca memberi amaran 15 wilayah di selatan Thailand



PASUKAN penyelamat Thai membawa mayat nelayan yang lemas di laut berikutan hujan lebat dan gelombang tinggi yang disebabkan ribut tropika Pabuk di wilayah Pattani, Thailand. - EPA

akan dilanda hujan lebat serta angin kencang akibat ribut berkenaan.

Namun, pada petang semalam, kekuatan ribut berkenaan berkurangan ketika

menuju Surat Thani. "Kekuatannya dijangka menurun menjadi ribut biasa

namun orang ramai masih perlu berhati-hari kerana angin kencang masih mampu menumbangkan pokok serta banjir kilat," kata kenyataan jabatan kaji cuaca.

Pihak berkuasa Thailand mengarahkan ribuan penduduk dipindahkan ke pusat perlindungan manakala dua lapangan terbang utama ditutup akibat ribut tropika dengan angin berkekuatan 80 kilometer itu.

"Angin kencang dengan ombak setinggi sehingga lima meter di Teluk Siam dan Laut Andaman. Semua kapal dinaisihkan berlabuh," kata Jabatan Meteorologi Thailand.

Menurut Jabatan Pencegahan dan Pengurangan Bencana, sejak beberapa hari lalu, 6,176 orang dipindahkan

ke pusat perlindungan dari Nakhon Si Thammarat serta wilayah Pattani, Songkhla dan Yala.

Lapangan terbang Nakhon Si Thammarat ditutup dan penerbangan kos rendah Nok Airlines Pcl menyatakan ia membatalkan semua lapan penerbangan keluar masuk dari wilayah itu.

Lapangan terbang Surat Thani juga akan ditutup bermula petang semalam, yang menjejaskan penerbangan Nok Airlines, Lion Air dan Thai Smile.

Terdahulu, Bangkok Airways Pcl turut mengumumkan pembatalan semua penerbangan keluar masuk dari destinasi percutian Koh Samui, termasuk perkhidmatan feri.

FAKTA
6,176 orang dipindahkan ke pusat perlindungan