

# Press release: Bluetongue virus detected and dealt with in cattle in Yorkshire

The UK's Chief Veterinary Officer has urged farmers to increase their vigilance for Bluetongue virus after the disease was picked up and dealt with in three consignments of cattle imported from France.

Two consignments were brought to two separate premises in Yorkshire, where the Animal and Plant Health Agency (APHA) and the Pirbright Institute identified the disease as a part of routine post-import testing.

All infected cattle, plus one other animal which travelled in the same vehicle and was found to be susceptible to infection, will be humanely culled.

The third consignment was taken to a premises in Northern Ireland where the disease was detected by the Department of Agriculture, Environment and Rural Affairs (DAERA).

Bluetongue does not affect people or food safety, but outbreaks of the virus can result in restrictions on livestock movement and trade. The virus is transmitted by midge bites and affects cattle, goats, sheep and other camelids such as llamas. It can reduce milk yield and cause infertility and in the most severe cases is fatal for infected animals.

Action is being taken to ensure the risk of spread of the disease is reduced, with movement restrictions already in place at the affected premises.

The UK Chief Veterinary Officer, Christine Middlemiss, said:

Farmers must be aware of the risks of bringing animals from disease-affected areas into their flocks and herds. It is vitally important that we keep this disease out.

This detection is a further example of our robust disease surveillance measures in action, but I urge farmers to remain vigilant. They need to work with importers to make sure effective vaccination needs are complied with and that all animals are sourced responsibly.

All cattle and sheep farmers are reminded to:

- Discuss their needs with a private veterinary surgeon and carefully consider the risks and the health status of animals before deciding to import stock from regions affected by Bluetongue virus
- Carefully consider what additional guarantees the seller can provide as

to the animal's vaccination status before purchasing (for example – by requesting that a pre-export test is carried out to prove immunity to BTV)

- Ensure that imported animals are accompanied by the relevant paperwork to show they meet certain conditions designed to reduce disease risk, such as correct vaccination
- Prevent the disease spreading by practising good biosecurity on the farm premises
- Stay alert to any signs of the disease, such as mouth ulcers and drooling from the mouth and nose, and report to APHA if necessary.

Importers should be aware that all cattle and sheep arriving in the UK from countries where Bluetongue is known to be circulating will be restricted until post-import testing is carried out and the animals are confirmed as compliant. Any animals which are infected with Bluetongue will be culled and no compensation will be paid. Any animals in the consignment which are at risk of becoming infected may also be culled.

In addition, all other susceptible animals on the premises will be placed under movement restrictions until we can confirm that the disease has not spread.

Last month a number of organisations across the livestock sector encouraged farmers to think carefully about importing animals from areas that are known to be infected with Bluetongue virus.

Following the interception of these consignments, the UK remains officially Bluetongue-free, the risk of the disease remains low and exports are not affected.

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## **[Press release: The sound of Mars](#)**

A UK instrument has captured the first sounds ever recorded directly from Mars.

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## **[Press release: The sound of Mars](#)**

The NASA InSight lander, which is supported by the UK Space Agency, has recorded a haunting, low rumble caused by vibrations from the wind. These vibrations were detected by an ultra-sensitive seismometer, developed in the UK, and an air pressure sensor sitting on the lander's deck.

Both recorded the Martian wind in different ways. The seismometer recorded vibrations as the wind moved over the lander's solar panels, each of which is more than 2 metres in diameter and sticks out from the sides of the lander like a giant pair of ears. The air pressure sensor recorded the vibrations directly from changes in the air.

Science Minister Chris Skidmore said:

Less than two weeks into the InSight Mission, UK science is already uncovering incredible things about Mars. As new Science Minister I am excited to see what more we can achieve on land and in outer space.

The mission is an example of our successful space sector making a difference to international science. Through the Government's Industrial Strategy, we are driving the biggest increase in public investment in research and development in UK history.

### [Video](#)

This is the only time during the mission that the seismometer – called the Seismic Experiment for Interior Structure, or SEIS – is capable of detecting these sounds. In a few weeks, it is due to be placed on the Martian surface by InSight's robotic arm. For now, it is recording wind data that scientists will later be able to cancel out of data from the surface, allowing them to separate "noise" from actual Marsquakes.

Sue Horne, Head of Space Exploration at the UK Space Agency, said:

This is brilliant news because it means we know the sensors have survived the rigours of landing on Mars and are meeting the requirements to achieve their science goals. It is just amazing to hear the first ever sounds from Mars.

SEIS includes three Short Period sensors (SEIS SP) developed in partnership by Imperial College London, Oxford University and STFC RAL Space, with £4 million in funding from the UK Space Agency. These sensors can detect motion at sub-atomic scales, which includes the wind on Mars, which is barely within the lower range of human hearing.

When the sensors pick up vibrations from InSight's solar panels, the whole spacecraft acts like a giant microphone.

InSight science team member Prof Tom Pike of Imperial College London said:

The solar panels on the lander's sides are perfect acoustic receivers. It's like InSight is cupping its ears.

Prof Pike compares the effect to a flag in the wind. As a flag breaks up the wind, it creates oscillations in frequency that the human ear perceives as flapping.

InSight, which landed on 26 November 2018, will study the inside of Mars to learn how planets, moons and meteorites with rocky surfaces, including the Earth and its Moon, formed.

Dr Neil Bowles, from the University of Oxford's Department of Physics, said:

To get the first data from the seismometer instrument package has been fantastic and even with a short test run the analysis is now full swing.

To 'hear' the low frequency rumble of the Martian wind on the lander being picked up by the SEIS-SP is really eerie and provides a strangely human connection to this very different environment.

Both audio samples have been released to the public almost completely unaltered. In some cases, they have been raised an octave in order to be perceptible to the human ear.

But an even clearer sound from Mars is to come. In just a couple years, the British-built Mars 2020 rover is scheduled to land with two actual microphones on board. One has been included specifically to record the sound of a Martian landing for the first time. A second will be able to detect the sound of the instrument's laser as it zaps different materials. This will help identify these materials based on the change in sound frequency.

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## [Press release: Overseas Territories meet in London for annual Joint Ministerial Council](#)

Political leaders from all UK Overseas Territories met with UK ministers this week for the annual Joint Ministerial Council in London from 4-5 December.

The discussions, hosted by Foreign Office Minister of State for the Overseas Territories Lord (Tariq) Ahmad of Wimbledon, covered a range of topics, including Brexit, trade and investment, financial services, safeguarding, disaster management and constitutional issues. HRH the Duke of York also addressed the attendees at the JMC reception.

Minister of State for the Overseas Territories Lord Ahmad of Wimbledon said:

It was a pleasure to welcome Premiers and representatives from all of the UK's Overseas Territories to London. The UK Government is negotiating a Brexit agreement for the whole of the UK family, including the Overseas Territories, and we are committed to finding the best deal for all of us. We also discussed a range of other issues of high importance to all of the Overseas Territories, including making sure that we are collectively prepared for the next hurricane season.

I will be taking the conversations I have had with colleagues from the Overseas Territories and making sure they are fully considered and reflected on as we continue our plans and discussions on Brexit over the coming weeks and months.

The ministers and representatives from the Overseas Territories held a series of productive discussions on Brexit. These talks reaffirmed the UK government's commitment to taking the Territories' priorities into account as the UK prepares to leave the EU, including in relation to funding, trade, the environment and education.

This follows assurances given by the UK Government that, in the unlikely scenario that we leave the EU without a deal, existing projects under certain EU funding streams will be guaranteed by Her Majesty's Treasury for the lifetime of those projects.

Also present at the meeting were:

- The Rt Hon Lord Bates, Department for International Development
- Thérèse Coffey MP, Department for Environment, Food and Rural Affairs
- George Hollingbery MP, Department for International Trade
- John Penrose MP, Prime Minister's Anti-Corruption Champion
- Chloe Smith MP, Cabinet Office
- The Rt Hon Mel Stride MP, Her Majesty's Treasury
- Robin Walker MP, Department for Exiting the EU

The leaders of the Overseas Territories also attended Her Majesty The Queen's Reception for the Diplomatic Corps at Buckingham Palace.

**Further information**

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# Ministerial Council

Lord Ahmad of Wimbledon hosted political leaders from UK Overseas Territories on 4-5 December