



No. 510 3 APRIL 2021

Desert Locust Bulletin

General situation during March 2021 Forecast until mid-May 2021

WESTERN REGION: CALM

SITUATION. Low numbers of solitarious adults in **Morocco** and **Algeria**.

FORECAST. Small-scale spring breeding south of the Atlas Mountains in **Morocco** and central **Algeria**.

CENTRAL REGION: THREAT

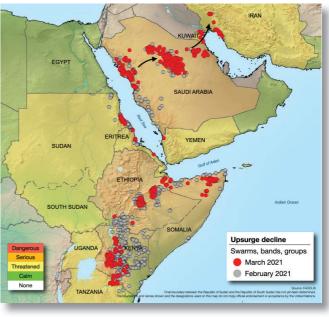
SITUATION. Swarms remain immature and decline due to control in Ethiopia (13 366 ha treated) and Kenya (1 184 ha); more swarms form in NE and NW Somalia (12 396 ha); mature swarm remnants, hatching and small bands form in northeast Tanzania (236 ha). On the Red Sea coast, hatching and hopper groups form in Eritrea (100 ha), and swarm laying, hatching and bands form in Sudan (7 437 ha). Adult groups laying, hatching and bands form in Saudi Arabia (50 120 ha) interior; few mature swarms invade Kuwait; scattered adults in Egypt and Yemen.

FORECAST. Immature swarms decline further in Kenya, Ethiopia and Somalia unless rains arrive to cause swarms to mature and lay, causing small bands to form in late April and May; more hatching and band formation in Saudi Arabia interior but may be limited by unusually hot, dry conditions, yet immature groups and small swarms could still form in May; bands, adult groups and perhaps small swarms form on central coast of Sudan and move inland; adults move from coast to interior in Yemen.

EASTERN REGION: CALM

SITUATION. Few mature swarms invade southwest **Iran** (1 521 ha treated) from Arabia.

FORECAST. Hatching and band formation in southwest Iran; small-scale breeding in southern **Iran** and southwest **Pakistan** if it rains.



Upsurge begins to decline

The current upsurge showed signs of significant decline during March as Desert Locust swarms continued to decrease in Kenya, Ethiopia and Somalia due to ongoing control operations and poor rainfall. Swarms remained immature, waiting for the spring rains that are required for maturation and egg laying. While this may still occur in April, below-normal rainfall expected this spring would limit breeding to parts of northern Kenya and southern Ethiopia at a much lower scale than last year. If this is followed by poor rainfall this summer in northeast Ethiopia, then the Desert Locust situation should return to normal. Limited breeding occurred in northeast Tanzania from remnants of earlier swarms. Although winter-bred infestations declined along both side of the Red Sea, late hatching and hopper band formation occurred in Sudan. More importantly, widespread hatching and hopper band formation took place in the interior of Saudi Arabia where control operations combined with earlier than normal dry and hot conditions should be able to reduce these infestations. In addition, strong winds carried a few small mature swarms to Kuwait and southwest Iran. This could lead to hatching and band formation in southwest Iran during April and May. The situation remained calm in other regions and no significant developments are expected.

The FAO Desert Locust Bulletin is issued every month by the Desert Locust Information Service (DLIS) at FAO HQ in Rome, Italy. DLIS continuously monitors the global Desert Locust situation, weather and ecology to provide early warning based on survey and control results from affected countries, combined with remote sensing, historical data and models. The bulletin is supplemented by Alerts and Updates during periods of increased Desert Locust activity.

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Some rain fell in northern Kenya and southern Ethiopia. Unusually high temperatures occurred in the spring breeding areas of the interior of Saudi Arabia.

WESTERN REGION

Very little rain fell in the region during March. In Algeria, light showers fell in the northwest near Bechar, in parts of the central Sahara in Algeria near In Salah, and in the Hoggar Mountains where runoff could occur on its edges that may lead to favourable breeding conditions in some places near Tamanrasset and Illizi. In Morocco, vegetation was green along the southern side of the Atlas Mountains in the Draa and Ziz-Ghris valleys but soil moisture remained dry.

CENTRAL REGION

In East Africa, light to moderate rains fell at times during the second half of March in the northern counties of Marsabit and Turkana in Kenya and in southern SNNP and Oromia regions of Ethiopia, including the Rift Valley, the Ahmar Mountains and Harar Highlands. Annual vegetation became green along the eastern escarpment of these areas, leading to the eastern lowlands. Vegetation was drying out along both sides of the Red Sea. Nevertheless, breeding conditions remained favourable on the central and southern coast of the Red Sea in Sudan as well as near irrigated areas in the Nile Valley. In Eritrea, ecological conditions were favourable for breeding on the central coast early in the month but were drying out on the northern coast. In Yemen, conditions were drying out along the coastal plains of the Red Sea and Gulf of Aden. Although no significant rain fell in the interior of Saudi Arabia, breeding conditions remained favourable between Riyadh and Hail from previous rains. Daytime temperatures were much higher than normal, accompanied at times by strong southerly winds and blowing dust, especially on 23-25 March.

EASTERN REGION

Light to moderate rain fell at times during the first half of March in some coastal and subcoastal areas of southwest Iran. During the second half of March, light to moderate showers fell in the interior of Baluchistan, Pakistan near Khuzdar and Nushki. Consequently, ecological conditions could become favourable for breeding in southwest Iran and in parts of the interior of Baluchistan. Elsewhere, dry conditions prevailed in the spring breeding areas.



Control operations declined in March, treating 86 360 ha, compared to 249 823 ha in February.

Eritrea	100 ha
Ethiopia	13 366 ha
Iran	1 521 ha
Kenya	1 184 ha
Kuwait	no details
Saudi Arabia	50 120 ha
Somalia	12 396 ha
Sudan	7 437 ha
Tanzania	236 ha



WESTERN REGION

MAURITANIA

SITUATION

No locusts were reported during March.

FORECAST

No significant developments are likely.

MALI

• SITUATION

No locusts were reported during March.

• FORECAST

Low numbers of adults are likely to persist in parts of the Adrar des Iforas. No significant developments are likely.

NIGER

• SITUATION

No locusts were reported during March.

• FORECAST

Isolated locusts are likely to persist in parts of the Air Mountains and the Tamesna Plains.

CHAD

• SITUATION

No locusts were reported during March.

• FORECAST

No significant developments are likely.

SENEGAL

• SITUATION

No reports were received during March.

FORECAST

No significant developments are likely.

No. 510 March 2021 page 2 of 9

BENIN, BURKINA FASO, CAMEROON, CAPE VERDE, CÔTE D'IVOIRE, GAMBIA, GHANA, GUINEA, GUINEA BISSAU, LIBERIA, NIGERIA, SIERRA LEONE, AND TOGO

FORECAST

No significant developments are likely.

ALGERIA

• SITUATION

During March, scattered solitarious adults were maturing near irrigated areas in the Adrar Valley (2753N/0017W) of the Central Sahara. No locusts were seen in the northwest between Beni Abbes (3011N/0214W) and Bechar (3135N/0217W) and in the south to the west of Tamanrasset (2250N/0528E).

FORECAST

Small-scale breeding is likely to occur in the Adrar Valley.

Morocco

• SITUATION

During March, isolated mature solitarious adults were present in the spring breeding areas along the southern side of the Atlas Mountains between Guelmim (2859N/1003W) and Zagora (3019N/0550W) in the Draa Valley, south of Erfoud (3128N/0410W) in the Ziz-Ghris Valley, and in a few places towards the northeast near Bouarfa (3232N/0159W). No surveys were carried out in the Western Sahara.

• FORECAST

Small-scale breeding will cause a slight increase in locust numbers in the Draa and Ziz-Ghris valleys.

LIBYA

• SITUATION

No surveys were conducted, and no locusts were reported during March.

• FORECAST

No significant developments are likely.

TUNISIA

• SITUATION

No locusts were reported during March.

• FORECAST

No significant developments are likely.

CENTRAL REGION

SUDAN

• SITUATION

During the first half of March, adult groups and swarms continued laying eggs on the Red Sea coast in Tokar Delta (1827N/3741E) as well as to the north and south that supplemented earlier laying during the last decade of February. Hatching and band formation occurred from the second week onwards and, by the end of the month, some hoppers had reached third instar. Control teams treated 7 437 ha of which 7 000 ha were by air. Elsewhere, scattered immature and mature solitarious

and gregarious adults were seen on the coast between Suakin (1906N/3719E) and Karora (1745N/3820E) and in the northeast along Wadi Oko/Diib north of Tomala (2002N/3551E). In the interior, scattered mature solitarious adults were present along the Atbara River and in the Nile Valley between Shendi (1641N/3322E) and Ed Debba (1803N/3057E).

FORECAST

A few more hopper groups and bands are likely to form in early April from late egg-laying near Tokar Delta. Fledging will commence about mid-April, giving rise to groups of immature adults and perhaps a few small swarms. As vegetation dries out, they are expected to move inland to the Atbara River and Nile Valley.

ERITREA

SITUATION

During the first week of March, hatching occurred on the Red Sea coast south of Mehimet (1723N/3833E) and hoppers formed early instar groups. Further south on the central coast, mid-instar hopper groups were present near Wekiro (1548N/3918E) from earlier breeding while late instar hopper groups were seen at mid-month on the southern coast near Idd (1357N/4138E). Ground teams treated 100 ha.

FORECAST

Fledging is expected to occur during the first half of April along the Red Sea coast where a few small groups of immature adults could form as vegetation dries out.

Етніоріа

• SITUATION

During March, swarms persisted in Oromia region where they remained immature due to a lack of rainfall. Most of the swarms were concentrated east of the Rift Valley in the Ahmar Mountains north of Bale Robe (0707N/4000E) and the Harar Highlands south of Dire Dawa (0935N/4150E). No locusts were seen further south after the second week when immature swarms were present in southern Oromia near Arero (0445N/3849E) and in SNNP west of Konso (0520N/3726E). By the end of the month, the number and sizes of swarms had declined. Control operations also declined as fewer targets were present, treating 13 366 ha in March of which 12 577 were by air.

• FORECAST

Additional rainfall is needed to allow current swarms to mature and lay eggs in eastern and southern Oromia and southern SNNP. This may occur during the first half of April; otherwise, only a few small immature swarms are likely to persist, and locust infestations should continue to decline.

DЈІВО**U**ТІ

• SITUATION

During March, no locusts were seen during surveys carried out in coastal and interior areas of the northern regions of Tadjourah and Obock, on the coastal plains east of Djibouti (1134N4309E), and in the southern regions of Ali Sabieh and Dikhil.

FORECAST

There remains a low risk of a few swarms appearing in the south at times from adjacent areas of Ethiopia and northwest Somalia.

SOMALIA

• SITUATION

During March, a few hopper bands persisted on the northwest coastal plains in the first week while a greater number of bands were seen in the northeast between Erigavo (1040N/4720E) and Iskushuban (1017N/5014E) until mid-month. As the bands fledged, immature swarms formed in both areas. Swarms that formed on the northwest coast moved inland up the escarpment to the plateau towards Boroma (0956N/4313E) where some continued into Ethiopia while the swarms in the northeast generally remain on the escarpment, drifting slightly westwards. There is a risk of a few additional swarms in the inaccessible Cal Miskaad mountains northwest of Iskushuban. Apart from a few swarms that were maturing, the majority of the swarms remained immature during the remainder of the month. Control operations treated 12 396 ha of which 6 234 ha were by air in the north.

FORECAST

Immature swarms are likely to persist on the northern plateau where they are likely to disperse between Garowe, Iskushuban, Las Anod, Erigavo, Burao and Boroma. Any rainfall that occurs would allow the swarms to mature and lay eggs that could give rise to hopper bands in April and May.

KENYA

• SITUATION

During March, swarms remained immature due to a lack of rainfall. Most of the swarms were present in Baringo and Nakuru counties between Mt. Kenya and the Rift Valley and, to a lesser extent, in parts of Samburu and Marsabit counties to the north and Kajiado county south of Nairobi as well as a few other counties. Although many swarms were reported more than once, their total number and size steadily declined. Swarms were reported from 12 counties in the first week compared to three counties by the end of the month. Control operations also declined as fewer targets were present, treating 1 184 ha in March of which 671 ha were by air.

• FORECAST

Additional rainfall is needed to allow any residual swarms to mature and lay eggs in northern areas (Marsabit, Turkana and Samburu). This may occur during the first half of April, giving rise to small hoppers by early May; otherwise, only a few small immature swarms are likely to persist, and locust infestations should continue to decline.

TANZANIA

• SITUATION

During the first week of March, several remnants of swarms matured in the northeast between Mt. Kilimanjaro and the Rift Valley escarpment west of Arusha (0322S/3642E). On the 20th, small second instar hopper bands were seen at a few places west of Arusha, suggesting that laying occurred in late February with hatching during the second week of March. On 24 March, an immature swarm presumably from adjacent areas of southern Kenya was seen near the border northwest of Longido (0244N/3642E). Ground teams treated 236 ha.

• FORECAST

Undetected breeding may have occurred on a limited scale from west of Arusha to Mt. Kilimanjaro where small hopper bands may form. Fledging is likely to take place during the third week of April that could give rise to groups of immature adults and perhaps a few small swarms, which are likely to move northwards.

SOUTH SUDAN

SITUATION

No locusts were reported during March.

• FORECAST

There remains a low risk that a few small swarms from adjacent areas of Kenya and southwest Ethiopia could reach Eastern Equatoria.

UGANDA

• SITUATION

No locusts were reported during March.

• FORECAST

There remains a low risk that a few small swarms from adjacent areas of Kenya could reach Karamoja in the east.

EGYPT

• SITUATION

During March, isolated maturing solitarious adults persisted at one place in the southeast near the Sudan border along Wadi Diib to the west of Abu Ramad (2224N/3624E). No locusts were present elsewhere along the coast and in subcoastal areas to El Sheikh El Shazly (2412N/3438E).

• FORECAST

Locust numbers will decline further along the Red Sea coast in the southeast and no significant developments are likely.

SAUDI ARABIA

• SITUATION

During March, hopper groups and bands declined on the northern Red Sea coast between Thuwal (2215N/3906E) and Al Wajh (2615N/3627E) due to control operations and as they fledged to form immature groups that moved to the spring breeding areas of the interior. There, groups of mature adults laid eggs between Hail (2731N/4141E) and Riyadh (2439N/4642E) as well as further east near

Qaryat Al Ulya (2733N/4742E). Hatching and band formation commenced after the first week near Gassim (2621N/4358E) and, to a lesser extent, Hail. Control operations treated 50 120 ha of which 2 500 ha were by air.

• FORECAST

Locust infestations will decline further on the Red Sea coastal. In the spring breeding areas, hatching and band formation will continue during April from south of Al Jawf and Tabuk to nearly Riyadh. New hatching and band formation are expected between Al Hofaf and Kuwait. Unusually dry and hot conditions may limit breeding in both areas. Nevertheless, immature groups and small swarms could start to form by the end of the forecast period.

YEMEN

SITUATION

During the first week of March, low numbers of immature and mature solitarious adults were scattered along the Red Sea coastal plains between Suq Abs (1600N/4312E) and Bajil (1458N/4314E). An immature swarm was reported on the 5th most likely originating in areas that could not be accessed. During the second half of the month, immature and mature solitarious adults were scattered along the southern coast mainly between Am Rija (1302N/4434E) and Zinjibar (1306N/4523E) and, to a lesser extent, near Ahwar (1333N/4644E) and Mayfa'a (1416N/4735E).

FORECAST

Adults that persist along the Red Sea and Gulf of Aden coasts may concentrate as vegetation dries out and form small groups. Scattered adults are perhaps a few small groups are likely to appear in the interior between Marib and Wadi Hadhramaut.

OMAN

• SITUATION

During March, no locusts were seen in the interior and coastal areas of the north and in the Dhofar region of the south.

• FORECAST

Small-scale breeding may occur in the northern interior and on the Batinah coast if rains fall.

KUWAIT

• SITUATION

On 24 March, mature groups and swarmlets first appeared in the south and rapidly moved northwards on strong southerly winds through Kuwait City and Al-Sulaibiya farms (2916N/4748E) to Abdali farms (3004N/4741E) in the north. Control operations were carried out on 24–27 March.

• FORECAST

A few adult groups could appear from the south during periods of strong southwesterly or southerly winds.

Bahrain, D.R. Congo, Iraq, Israel, Jordan, Lebanon, Palestine, Qatar, Syria, Turkey, and UAE

• FORECAST

No significant developments are likely.

EASTERN REGION

IRAN

SITUATION

During March, isolated immature and mature solitarious adults were seen northeast of Bushehr (2854N/5050E) in a few subcoastal areas. On 25–26 March, several mature adult groups and a few small mature swarms from adjacent areas of Kuwait and Saudi Arabia arrived on the coast west of Bushehr during two days of very strong southwesterly and southerly winds. Some of the swarms were seen further inland to the north in Khuzestan Province near Dezful (3224N/4824E) and the foothills of the Zagros Mountains. One group was copulating on the coast. Ground teams treated 1 521 ha. No locusts were seen or reported elsewhere along the southern coast and in subcoastal areas from Hormozgan to Sistan-Baluchistan and in the northeastern province of South Khorasan.

• FORECAST

Hatching and band formation is likely to occur during the second half of April on the southwest coast near Bushehr and in a few coastal and inland areas of Khuzestan. Low numbers of adults are likely to be present in a few areas along the Hormozgan and Sistan-Baluchistan coast and in the Jaz Murian Basin where they will breed on a small scale in areas that receive rainfall.

PAKISTAN

• SITUATION

During March, no locusts were seen or reported in coastal and interior areas of Baluchistan.

• FORECAST

Low numbers of adults are likely to appear and breed on a small scale in areas of recent rain near Khuzdar and Nushki. This could extend to other areas along the coast and interior of Baluchistan if more rains fall. No significant developments are likely.

INDIA

• SITUATION

During March, no locusts were seen by surveys in Rajasthan and Gujarat.

• FORECAST

No significant developments are likely.

AFGHANISTAN

• SITUATION

No locust reports were received during March.

• FORECAST

No significant developments are likely.

No. 510 March 2021

Announcements

Locust warning levels

A colour-coded scheme indicates the seriousness of the current Desert Locust situation: **green** for *calm*, **yellow** for *caution*, **orange** for *threat*, and **red** for *danger*. The scheme is applied to the Locust Watch web page and to the monthly bulletins. The levels indicate the perceived risk or threat of current Desert Locust infestations to crops and appropriate actions are suggested for each level.

Locust reporting

Calm (green) periods. Countries should report at least once/month and send RAMSES data with a brief interpretation.

Caution (yellow), threat (orange) and danger (red) periods. During locust outbreaks, upsurges and plagues, RAMSES output files with a brief interpretation should be sent regularly every three days.

Bulletins. Affected countries are encouraged to prepare decadal and monthly bulletins summarizing the situation and share them with other countries.

Reporting. All information should be sent by e-mail to the FAO Desert Locust Information Service (eclo@fao.org and faodlislocust@gmail.com). Reports received by the first two days of the new month will be included in the FAO Desert Locust Bulletin; otherwise, they will not appear until the following month. Reports should be sent even if no locusts were found or if no surveys were conducted.

Desert Locust upsurge and response

On 17 January 2020, the Director-General of FAO activated the L3 protocols, the highest emergency level in the United Nations system, in FAO to allow fast-tracking an effective response to the upsurge in the Horn of Africa.

[www.fao.org/locusts]

eLocust3 tools

FAO has developed three new free tools – a mobile app (eLocust3m), a GPS app (eLocust3g), and an Internet form (eLocust3w) – for improving survey and control reporting by field teams and communities. The data is critical for monitoring the situation and organizing control operations in each country and feeds into FAO's global early warning system.

[http://www.fao.org/ag/locusts/en/activ/2573/eL3suite/index.html]

Desert Locust posters

FAO in collaboration with OCHA has developed six simple, easy to understand posters for communities that may be affected by locusts. The purpose is to provide basic messaging on pesticide containers, safety measures,

pesticide exposure, farmer advice, Desert Locust, and following instructions. The posters can be edited. [http://www.fao.org/ag/locusts/en/publicat/2581/index.html]

Desert Locust animation

FAO in collaboration with SAWBO has produced a simple animation that explains the danger of Desert Locust. [https://www.youtube.com/watch?v=3TOhuA-v1m4]

Locust Hub

FAO in partnership with ESRI operates a centralized hub for the latest Desert Locust data and progress on the emergency response to the Desert Locust upsurge. [https://locust-hub-hqfao.hub.arcgis.com]

Hand-in-Hand geospatial platform

FAO has developed the Hand-in-Hand geospatial platform that also integrates Desert Locust data from the Locust Hub. [https://data.apps.fao.org]

Calendar

• CLCPRO. 10th session, Algiers, Algeria (October, tbc)



Glossary of terms

The following special terms are used in the Desert Locust Bulletin when reporting locusts:

Non-gregarious adults and hoppers

Isolated (few)

- · very few present and no mutual reaction occurring
- 0–1 adult/400 m foot transect (or less than 25/ha) **Scattered** (some, low numbers)
- enough present for mutual reaction to be possible but no ground or basking groups seen
- 1–20 adults/400 m foot transect (or 25–500/ha)
 Group
- · forming ground or basking groups
- 20+ adults/400 m foot transect (or 500+/ha)

Adult swarm and hopper band sizes

Very small

swarm: less than 1 km²

• band: 1-25 m²

Small

• swarm: 1-10 km²

• band: 25-2,500 m²

Medium

swarm: 10–100 km²

• band: 2,500 m² - 10 ha

Large

• swarm: 100-500 km²

• band: 10-50 ha

Very large

swarm: 500+ km²

• band: 50+ ha

No. 510 March 2021

Rainfall

Light

• 1-20 mm

Moderate

· 21-50 mm

Heavy

· more than 50 mm

Summer rains and breeding areas

- · July-September/October
- Sahel of West Africa, Sudan, western Eritrea; Indo-Pakistan border

Winter rains and breeding areas

- · October-January/February
- Red Sea and Gulf of Aden coasts; northwest Mauritania, Western Sahara

Spring rains and breeding areas

- · February-June/July
- Northwest Africa, Arabian Peninsula interior, Somali plateau, Iran/Pakistan border

Other reporting terms

Breeding

• The process of reproduction from copulation to fledging

Recession

Period without widespread and heavy infestations by swarms

Remission

 Period of deep recession marked by the complete absence of gregarious populations

Outbreak

 A marked increase in locust numbers due to concentration, multiplication and gregarisation which, unless checked, can lead to the formation of hopper bands and swarms

Upsurge

 A period following a recession marked initially by a very large increase in locust numbers and contemporaneous outbreaks followed by the production of two or more successive seasons of transient-to- gregarious breeding in complimentary seasonal breeding areas in the same or neighbouring Desert Locust regions

Plague

 A period of one or more years of widespread and heavy infestations, the majority of which occur as bands or swarms. A major plague exists when two or more regions are affected simultaneously

Decline

 A period characterised by breeding failure and/or successful control leading to the dissociation of swarming populations and the onset of recessions; can be regional or major

Warning levels

Green

Calm. No threat to crops; maintain regular surveys and monitoring

Yellow

 Caution. Potential threat to crops; increased vigilance is required; control operations may be needed

Orange

 Threat. Threat to crops; survey and control operations must be undertaken

Red

 Danger. Significant threat to crops; intensive survey and control operations must be undertaken

Regions

Western

 Locust-affected countries in West and North-West Africa: Algeria, Chad, Libya, Mali, Mauritania, Morocco, Niger, Senegal, Tunisia; during plagues only: Benin, Burkina Faso, Cameroon, Cape Verde, Côte d'Ivoire, Gambia, Ghana, Guinea, Guinea-Bissau, Liberia, Nigeria, Sierre Leone and Togo

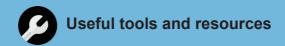
Central

 Locust-affected countries along the Red Sea: Djibouti, Egypt, Eritrea, Ethiopia, Oman, Saudi Arabia, Somalia, Sudan, Yemen; during plagues only: Bahrain, Iraq, Israel, Jordan, Kenya, Kuwait, Lebanon, Palestine, Qatar, South Sudan, Syria, Tanzania, Turkey, UAE and Uganda

Eastern

 Locust-affected countries in South-West Asia: Afghanistan, India, Iran and Pakistan.

No. 510 March 2021 page 7 of 9



FAO Locust Watch. Information, maps, activities, publications, archives, FAQs, links http://www.fao.org/ag/locusts

FAO/ESRI Locust Hub. Desert Locust maps and data download, and emergency response progress https://locust-hub-hqfao.hub.arcqis.com

FAO regional commissions. Western Region (CLCPRO), Central Region (CRC), South-West Asia (SWAC) http://www.fao.org/ag/locusts

IRI RFE. Rainfall estimates every day, decade and month http://iridl.ldeo.columbia.edu/maproom/.Food_Security/.Locusts/index.html

IRI Greenness maps. Dynamic maps of green vegetation evolution every decade http://iridl.ldeo.columbia.edu/maproom/Food_Security/Locusts/Regional/greenness.html

NASA WORLDVIEW. Satellite imagery in real time

https://worldview.earthdata.nasa.gov

Windy. Real time rainfall, winds and temperatures for locust migration http://www.windy.com

eLocust3 suite. Digital tools for data collection in the field (mobile app, web form, GPS) http://www.fao.org/ag/locusts/en/activ/DLIS/eL3suite/index.html

eLocust3 training videos. A set of 15 introductory training videos are available on YouTube https://www.youtube.com/playlist?list=PLf7Fc-oGpFHEdv1jAPaF02TCfpcnYoFQT

RAMSESv4 training videos. A set of basic training videos are available on YouTube https://www.youtube.com/playlist?list=PLf7Fc-oGpFHGyzXqE22j8-mPDhhGNq5So

RAMSESv4 and eLocust3. Installer, updates, videos, inventory and support https://sites.google.com/site/rv4elocust3updates/home

FAOLocust Twitter. The very latest updates posted as tweets

http://www.twitter.com/faolocust

FAOLocust Facebook. Information exchange using social media http://www.facebook.com/faolocust

FAOLocust Slideshare. Locust presentations and photos

http://www.slideshare.net/faolocust

eLERT. Online database of resources and technical specifications for locust emergencies http://sites.google.com/site/elertsite

No 510 March 2021 page 8 of 9

Desert Locust Summary Criquet pèlerin – Situation résumée

510 🗫

