

## LEMO AD 2 AERODROME DATA

LEMO AD 2.1 AERODROME LOCATION INDICATOR AND  NAME

LEMO - SEVILLA/Morón

## LEMO AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP	371030N 0053658W. See AD 2-LEMO ADC.
2	Distance and direction from the city	50 km SE Sevilla, 17 km NW Morón.
3	Elevation	87 m / 285 ft.
4	Geoid undulation	47.04 m ± 0.05 m.
5	Reference temperature	34°C.
6	Low average temperature	9°C.
7	Magnetic variation	1°W (2020).
8	Annual change	7.8'E.
9	AD administration	Ejército del Aire y del Espacio.
10	Address	Base Aérea de Morón - Ctra Sevilla-Morón km 17. 41530 - Morón de la Frontera (Sevilla).
11	TEL	+34-954 842 200
12	FAX	+34-954 842 713
13	AFTN	LEMO
14	E-mail	<a href="mailto:segen-ala11@ea.mde.es">segen-ala11@ea.mde.es</a>
15	Approved traffic	IFR/VFR. Exclusive military use.
16	Remarks	(1) For all AD points.

## LEMO AD 2.3 OPERATIONAL HOURS

1	Airport	H24. (1)
2	Customs and Immigration	HR AD.
3	Health and Sanitation	HR AD.
4	AIS/ARO/OPV	HR AD.
5	MET briefing	HR AD.
6	ATS	HR AD.
7	Fuelling	HR AD.
8	Handling	HR AD.
9	Security	H24.

10	De-icing	No.
11	Remarks	<p>(1) Foreign State aircraft will request compulsory PPR with 72 HR in advance. Requests will be done via:</p> <ul style="list-style-type: none"> <li>E-mail: <a href="mailto:ala11ecta@mde.es">ala11ecta@mde.es</a></li> <li>AFTN: LEMOZPZX.</li> </ul> <p>DoD (Department of Defence, USA) ACFT will contact with USAF AMOPS at DNS: 814-722-8418/8419 for PPR request.</p>

## LEMO AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo facilities	Forklifts up to 8 Tm and 4 Tm, cargo transferrer (load MAX 30000 pounds), towable passenger gangway, docking material (chains, straps, tensors and pallet packaging), pallet-lifters (towable) and pallet platforms (fixed).
2	Fuel types	F-34.
3	Oil types	G-353, G-359, G-372, G-382, G-392, H-515, H-537, H-5420-133, O-142, O-148, O-153, O-156, O-190, O-226, O-228, O-1236.
4	Refuelling capacity	<p>Trucks:</p> <ul style="list-style-type: none"> <li>40000 L; 10 L/s.</li> <li>35000 L; 10 L/s.</li> <li>20000 L; 10 L/s.</li> </ul> <p>Pumping truck (EA ACFT only).</p>
5	De-Icing facilities	No.
6	Hangar space	No.
7	Repair facilities	No.
8	Remarks	<p>Unit of AC (115V 400HZ 60 KVA) and DC (24/28V 2500A).</p> <p>Liquid oxygen O/R.</p>

## LEMO AD 2.5 PASSENGER FACILITIES

1	Hotels	Yes.
2	Restaurant	Yes.
3	Transportation	Buses and light vehicles according to availability and on request.
4	Medical facilities	First aid and ambulance.
5	Bank/Post Office	Yes/No.
6	Tourist information	No.
7	Remarks	None.

## LEMO AD 2.6 RESCUE AND FIREFIGHTING SERVICES

1	Fire category	6 extendible to 8 with PPR 48 HR in advance.
2	Rescue equipment	In accordance with the fire category published.
3	Removal of disabled aircraft	Facilities suitable for the aircraft based at the unit.

4	Remarks	None.
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**LEMO AD 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING AND SNOW PLAN**

1	Equipment	Aircraft lifting crane (30000 kg), snow blower sweeper.
2	Priority	Runways, taxiways and apron.
3	Remarks	None.

**LEMO AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA**

1	Apron	Surface: Concrete. Strength: P1: PCN 49/R/B/W/T; P2: PCN 28/R/B/W/T; P3: PCN 24/R/C/W/T; P4: PCN 71/R/B/W/T; P5: PCN 27/R/B/W/T.
2	Taxiways	Width: 22.86 m. Surface: A, D, C1 (East segment), C2, C3, C5, C6: Concrete; B, C, C1 (West segment), TA1, TA2, TA3: Asphalt. Strength: A: PCN 48/R/B/W/T; B: PCN 57/F/A/W/T; C: PCN 61/F/A/W/T; D: PCN 81/R/B/W/T; TA-1: PCN 37/F/A/W/T; TA-2: PCN 39/F/A/W/T; TA-3: PCN 40/F/A/W/T; C-1: PCN 17/R/C/W/T; C-2: PCN 64/R/B/W/T; C-3: PCN 44/R/B/W/T; C-4: PCN 37/R/B/W/T; C-5: PCN 36/R/B/W/T; C-6: PCN 36/R/C/W/T.
3	Check locations	Altimeter: No. VOR: No. INS: No. TACAN: TWY A and D.
4	Remarks	P1 divided into Ejército del Aire y del Espacio area (South part) and USA area (North part). Caution: Shelters C16.

**LEMO AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS**

1	Taxiing guidance system	Runway-holding positions, boards and stop bars.
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2	RWY markings	Designators, threshold, centre line, side stripe and touch down zone.
3	TWY markings	Centre line and side stripe.
4	Remarks	None.

## LEMO AD 2.10 AERODROME OBSTACLES

In approach and take-off areas			In circling area and at AD	
RWY Area	Obstruction	Coordinates	Obstruction	Coordinates
02	Radar 3.5 m/11 ft	371014.0N 0053632.2W	Arresting gear BAK-12B (B)	500 m FM THR 02
	Radar 3.5 m/11 ft	371116.6N 0053641.3W		
	Radar 3.5 m/11 ft	371033.8N 0053701.0W		
	Radar 3.5 m/11 ft	371030.7N 0053551.1W		
	Radar 3.5 m/11 ft	370950.4N 0053720.6W		
	Radar 3.5 m/11 ft	370947.5N 0053710.6W		
	GCA 5 m/16 ft	371028.6N 0053708.4W		
20	Floodlighting pole 132.5 m/435 ft	2000 m/179°MAG FM THR20	Arresting gear BAK-12B (B)	495 m FM THR 20
	Water tank 140.5 m/461 ft	1500 m/164°MAG FM THR20	Antenna 117.5 m/385 ft	370927.5N 0053522.8W
	Mountains 587 m/1926 ft	13000 m/139°MAG FM THR20	Antenna 117.5 m/385 ft	370919.5N 0053524.8W
	Antennas 122 m/400 ft	3000 m/159°MAG FM THR20		
			Communication antenna 51.2 m/168 ft	371015.4N 0053619.8W
			Floodlighting poles	
			129.31 m/424 ft	371036.8N 0053623.5W
		129.44 m/425 ft	371031.7N 0053625.8W	

In approach and take-off areas			In circling area and at AD	
RWY Area	Obstruction	Coordinates	Obstruction	Coordinates
20			128.96 m/423 ft	371027.8N 0053627.5W
			129.13 m/424 ft	371023.0N 0053629.7W
			129.31 m/424 ft	371019.4N 0053631.3W
			129.37 m/424 ft	371014.5N 0053633.6W
			129.50 m/425 ft	371010.7N 0053635.3W
			129.81 m/426 ft	371006.2N 0053637.3W
			127.19 m/417 ft	371001.0N 0053629.7W
			127.41 m/418 ft	370956.4N 0053641.8W
			127.54 m/418 ft	370951.8N 0053644.0W
Remarks	See AD 2-LEMO AOC.			

LEMO AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	MET office	Morón OMD.
2	HR	H24.
3	METAR	Half-hourly.
4	TAF	24 HR.
5	TREND	Yes.
6	Briefing	In person and by telephone.
7	Flight documentation/Language	Charts and plain language / Spanish and English.
8	Charts	Significant, forecasted and wind and temperature in altitude and maximum wind maps.
9	Supplementary equipment	Clouds and lightning image and radar information display.
10	ATS unit served	OPV, TWR.
11	Additional information	Sevilla OMAe (LESV): H24 <ul style="list-style-type: none"> <li>TEL: +34-954 462 030; +34-954 460 699</li> </ul> Morón OMD: H24 <ul style="list-style-type: none"> <li>TEL: +34-955 969 024</li> <li>E-mail: <a href="mailto:omdlema@aemet.es">omdlema@aemet.es</a></li> </ul>
12	Remarks	Aerodrome warnings available. Aerodrome climatological summary available.

LEMO AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

RWY	Direction	DIM (m)	THR PSN	THR ELEV TDZ ELEV	SWY (m)	CWY (m)	Strip (m)	OFZ	RESA (m)	RWY/SWY SFC PCN
02	019.83°GEO 021°MAG	3596 x 61	370934.73N 0053722.40W	THR: 87 m / 285 ft TDZ: No	305 x 61	305 x 61	4207 x 91	No	No	RWY: ASPH PCN 54/F/A/W/T (1) SWY: PCN 44/F/B/W/T

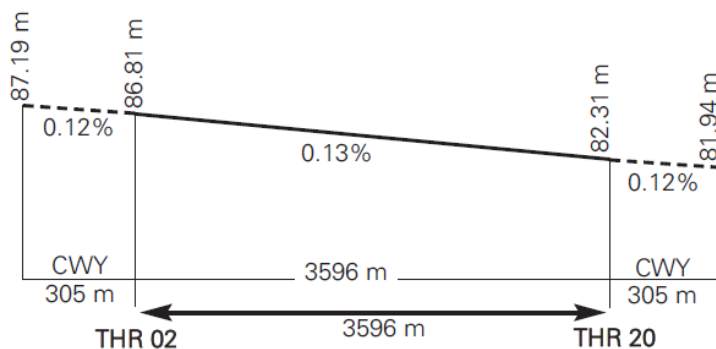
RWY	Direction	DIM (m)	THR PSN	THR ELEV TDZ ELEV	SWY (m)	CWY (m)	Strip (m)	OFZ	RESA (m)	RWY/SWY SFC PCN
20	199.84°GEO 201°MAG	3596 x 61	371124.47N 0053632.93W	THR: 82.3 m / 270 ft TDZ: INFO NO AVBL	305 x 61	305 x 61	4207 x 91	INFO NO AVBL	No	RWY: ASPH PCN 54/F/A/W/T (1) SWY: PCN 32/F/B/W/T

Remarks:

(1) First 300 m of each threshold are concrete. (RWY 02: PCN 55/R/B/W/T and RWY 20: PCN 121/R/B/W/T).

With wet surface, both TDZ are highly dangerous due to skating or hydroplaning.

12.1 PROFILE



LEMO AD 2.13 DECLARED DISTANCES

RWY	TORA (m)	TODA (m)	ASDA (m)	LDA (m)
02	3596	3901	3901	3596
20	3596	3901	3901	3596
02 INT B	2393	2698	2698	-
20 INT C	2393	2698	2698	-

Remarks: None.

LEMO AD 2.14 APPROACH AND RUNWAY LIGHTING

1	Runway	02
2	Approach	Simple (434 m). Runway lead-in lighting system. (1)
3	PAPI (MEHT)	3° (INFO NO AVBL).
4	Threshold	Green.
5	Touchdown zone	No.
6	Runway centre line	No.
7	Runway edge	3596 m white. (1)
8	Runway end	Red.
9	Stopway	Red.

10	Remarks	(1) Adjustable lights intensity O/R. PAPI contact point outside TDZ and before arresting gear GEAR BAK 12B (B).
1	Runway	20
2	Approach	Precision CAT I LIH (900 m). (1)
3	PAPI (MEHT)	3° (INFO NO AVBL).
4	Threshold	Green.
5	Touchdown zone	No.
6	Runway centre line	No.
7	Runway edge	3596 m: 2945 m white + 651 m yellow. (1)
8	Runway end	Red.
9	Stopway	Red.
10	Remarks	(1) Adjustable lights intensity O/R. PAPI contact point outside TDZ and before arresting gear GEAR BAK 12B (B).

### LEMO AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN	ALTN FLG W(2) G(1) EV 5 SEC. See AD 2-LEMO ADC (1).
2	WDI/LDI	1 near THR 02, 1 near THR 20.
3	TWY lighting	Edge.
4	Apron lighting	Floodlighting poles, 11 in P1 and 6 in P2.
5	Secondary power supply	Yes.
6	Remarks	(1) ABN only available O/R.

### LEMO AD 2.16 HELICOPTER LANDING AREA

1	Position	No.
2	Elevation	No.
3	Dimensions, surface, maximum weight, marking	No.
4	Direction	No.
5	Declared distances	No.
6	Lighting	No.
7	Remarks	None.

### LEMO AD 2.17 AIR TRAFFIC SERVICES AIRSPACE

1	Designation	CTR MORÓN.
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2	Lateral limits	Circle radius 6.5 NM centred on ARP.
3	Vertical limits	SFC - 1000 ft HGT.
4	Airspace class	D.
5	Unit Language	SEVILLA APP. ES/EN.
6	Transition altitude	1850 m / 6000 ft.
7	Hours of applicability	-
8	Remarks	None.

1	Designation	ATZ MORÓN.
2	Lateral limits	Circle radius 8 km centred on ARP. (1)
3	Vertical limits	SFC - 3000 ft HGT. (2)
4	Airspace class	D.
5	Unit Language	MORÓN TWR. ES/EN.
6	Transition altitude	-
7	Hours of applicability	-
8	Remarks	(1) Or the ground visibility, whichever is lower. (2) Or up to the cloud ceiling, whichever is lower.

LEMO AD 2.18 AIR TRAFFIC SERVICES COMMUNICATION FACILITIES

Service	Call sign	FREQ	HR	Remarks
APP	Sevilla APP	120.000 MHz	H24	-
		120.800 MHz	H24	APP/L (South sector)
		128.500 MHz	H24	APP/H (North sector)
TWR	Morón TWR	122.100 MHz	H24	-
		139.300 MHz	H24	MIL
		257.800 MHz	H24	-
		337.900 MHz	H24	GMC
		258.100 MHz	H24	-
		121.500 MHz	H24	EMERG
		243.000 MHz	H24	EMERG
		258.900 MHz	H24	GMC (USAF)
		396.850 MHz	H24	(USAF)

Service	Call sign	FREQ	HR	Remarks
GCA	Morón RADAR	138.550 MHz	(1)	(3, 4, 5)
		276.800 MHz	(1)	(3, 4, 5)
		342.000 MHz	(1)	(3, 4, 5)
		143.200 MHz	(1, 2)	(3, 4, 5)
Remarks	1. V: TUE-THU 0600-1730 FRI 0600-1300; I: TUE-THU 0700-1830 FRI 0700-1400. Except Monday, holidays or local air activity, AVBL PPR 24HR, (timetable subject to changes). 2. O/R 30 MIN. 3. Subject to interruption. 4. GCA limited to 1 at a time. 5. GCA available for Spanish aircraft only.			

**LEMO AD 2.19 RADIO NAVIGATION AND LANDING AIDS**

Facility (VAR)	ID	FREQ	HR	Coordinates	DME ELEV	Remarks
LOC 20 (1°W) ILS CAT I	IMRF	109.700 MHz	H24	370925.0N 0053726.8W	-	-
GP 20	-	333.200 MHz	H24	371116.7N 0053641.7W	-	3°; RDH 10.5 m at 320 m FM THR 20 & 132 m FM RCL on the right in the APCH direction.
ILS/DME 20	IMRF	CH 34 X	H24	371116.7N 0053641.7W	81 m	REF THR 20.
VOR (1°W)	MRN	115.500 MHz	H24	371030.2N 0053708.0W	-	-
DME	MRN	CH 102 X	H24	371030.2N 0053708.0W	90 m	-
TACAN (1°W)	MRN	CH 100 X	H24	371024.1N 0053714.1W	90 m	HR MAINT: V: THU 0500-0700; I: THU 0600-0800.

**LEMO AD 2.20 LOCAL AERODROME REGULATIONS**

**20.1 USA AIRCRAFT**

PREOCPE authorization (military and civil aircraft operating for the USA government).

**20.2 3RD NATIONALITY AIRCRAFT**

Diplomatic authorization and PPR.

**20.3 SPANISH CIVIL AIRCRAFT**

Estado Mayor del Aire (EMA) authorization and PPR.

**20.4 BACKTRACK**

Only authorized in THR (concrete) with turn from W to E avoiding foreign object debris damage (FOD) in the TWY / See LEMO item 12.

**20.5 TOUCH AND GOES**

- Vertical (aeroplanes): These may not be accomplished in the asphalt areas or on earth. They will only be cleared in the concrete pavements.
- At low speed or with parachute: Notify TWR in advance.

## 20.6 HELICOPTERS

From runway to parking and vice versa, these will use taxiways.

## 20.7 TRANSPORT OF DANGEROUS GOODS

The net explosive quantity (NEQ) must be included in item 18 of Flight Plan. Expected parking in taxiways A, B, C or D depending on the net explosive quantity (NEQ).

## 20.8 TWR EVACUATION

TWR will be evacuated with wind speed equal to or greater than 54 kt.

## 20.9 RADIO FAILURE

Always proceed to intercept the Base leg (East part) of runway 20 maintaining 500 ft, and overfly the aircraft ramp (between runway and control tower). Determine the runway in use by the yellow panels of the control tower. Maintain the radio failure traffic circuit, going around the control tower and the 11 floodlighting poles to the EAST and repeating the circuit until light signals are received (GREEN: Land, heading to the base leg (EAST part) of the runway in use. On vacating the runway await the "FOLLOW ME" vehicle; RED: once, repeat the circuit / twice, proceed to the alternate AD). Acknowledgement: Rock wings by day and flash landing lights twice by night.

## 20.10 PROCEDURE FOR REDUCING THE RISK OF BIRD STRIKE

Procedure not applicable to USA DoD aircraft.

Moderate bird watch conditions (BWC Moderate):

- No transit or touchdowns and take-offs shall take place.
- No practices, exhibitions or aerial trials will be cleared.
- Unless strictly necessary, take-offs/landings in formation will not be conducted.

Severe bird watch conditions (BWC Severe):

- No take-offs will be cleared except for helicopters.
- No transit or low approaches shall take place.
- Only traffic for final touchdown shall be cleared (the aircraft commander shall assume the risk).

## 20.11 TURNING RADIUS LIMITATION TO 90° ON TWY B AND C

There are restrictions on heavy aircraft turning right to enter the runway from TWY C, or turning left to enter TWY C from the runway. The same is true of turning left to access the runway from TWY B and turning right to access TWY B from the runway.

# LEMO AD 2.21 NOISE ABATEMENT PROCEDURES

## 21.1 RWY 02

Due to noise abatement procedures, aircraft on departure from RWY 02 shall fly with heading 008°. Once 3000 ft or 6 NM is reached, resume the departure procedure or follow ATC instructions.

VFR flights must avoid overflying "El Arahal".

IFR flights approaching by the EAST part outside the defined paths shall not enter the CTR below 3000 ft, but follow one of the paths published in the IAC.

## 21.2 RWY 20

Due to noise abatement procedures, aircraft on departure from RWY 20 shall fly with heading 218°. Once 3000 ft or 6 NM is reached, resume the departure procedure or follow ATC instructions.

VFR flights must avoid overflying "El Coronil".

IFR flights approaching by the EAST part outside the defined paths shall not enter the CTR below 3000 ft, but follow one of the paths published in the IAC.

### 21.3 VISUAL ARRIVALS (POINTS W AND E)

Do not circle or overfly the towns of UTRERA or MORÓN DE LA FRONTERA lower than 3000 ft.

### 21.4 QUIET HOURS

The hours defined as 'quiet hours' for the Base run from 2300 LT to 0600 LT.

During this period, and unless expressly otherwise authorized by the competent authority, no manoeuvre implying start-up of engines, including engine testing, approach manoeuvres and/or local VFR/IFR training flights, shall be cleared.

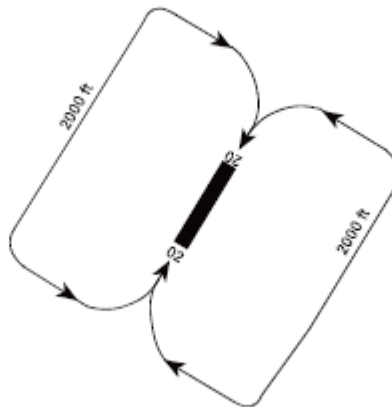
## LEMO AD 2.22 FLIGHT PROCEDURES

### 22.1 LOW VISIBILITY PROCEDURES

Low Visibility Procedures (LVP) are not available at Morón Air Base.

### 22.2 AD TRAFFIC CIRCUIT

- Tráfico hacia el Este: Helicópteros 1000 ft, aeronaves en fallo de comunicaciones 500 ft.  
- Tráfico hacia el Oeste: Reactores 2000 ft, ACFT convencionales 1500 ft.



- Traffic to the East: Helicopters 1000 ft, communication failure aircraft 500 ft.  
- Traffic to the West: Jet aircraft 2000 ft, conventional ACFT 1500 ft.

## LEMO AD 2.23 ADDITIONAL INFORMATION

### 23.1 ARRESTING SYSTEMS

Nomenclature: LEMO-01-C-B.

Type: RETRACTABLE CABLE BARRIER BIDIRECTIONAL.

Location: RWY 02 THR+500 m/1640 ft. RWY 20 THR+3096 m/10157 ft.

Readiness status: Permanently available.

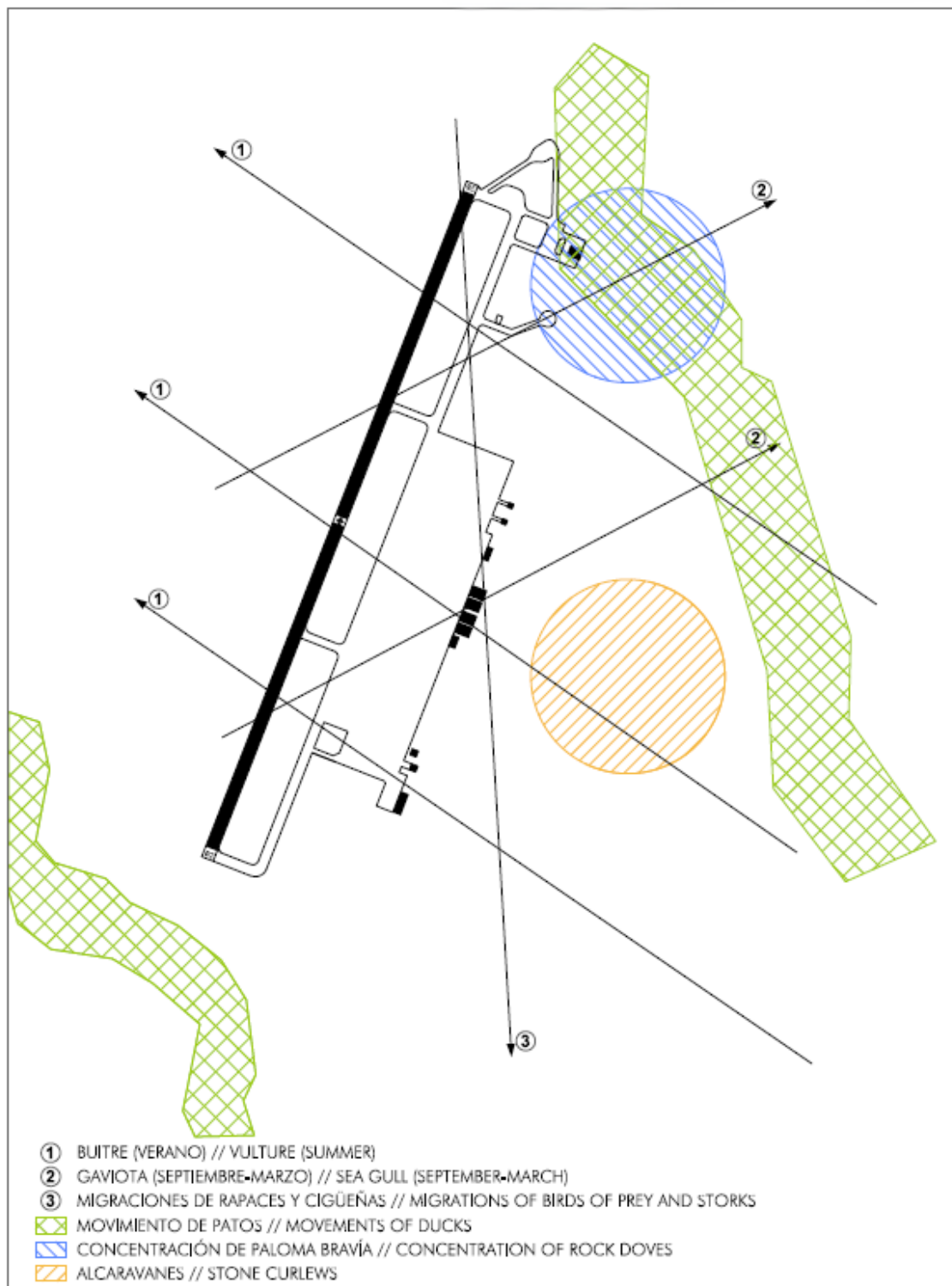
Nomenclature: LEMO-02-C-B.

Type: RETRACTABLE CABLE BARRIER BIDIRECTIONAL.

Location: RWY 02 THR+3101 m/10174 ft. RWY 20 THR+495 m/1624 ft.

Readiness status: Permanently available.

### 23.2 BIRDS AREAS OF CONCENTRATION AND FLOWS



### 23.3 RADAR INSTRUMENT APPROACH MINIMA

	RWY	GP/TCH/RPI	CAT	DH/MDA-VIS	HAT/HAA	CEIL-VIS
PAR	20	3°/34/634	ALL	470-800	200	200-800
PAR	02	3°/66/1258	ALL	485-800	200	200-800
SRE	02		A-B	830-800*	537	600-800*
SRE	02		C	830-1600	537	600-1600*
SRE	02		D-HPMA	830-2000	537	600-2000*

	RWY	GP/TCH/RPI	CAT	DH/MDA-VIS	HAT/HAA	CEIL-VIS
SRE	02		E	830-2400	537	600-2400*
SRE	20		A-B	690-800*	411	400-800*
SRE	20		C	690-1200**	411	400-1200**
SRE	20		D-HPMA	690-1200	411	400-1200**
SRE	20		E	690-1600	411	400-1600**
CIR			A	830-1600	541	600-1600
CIR			B	830-1600	541	600-1600
CIR			C	940-2800	645	700-2800
CIR			D	1100-4000	809	900-4000
CIR			HPMA	910-3200	619	700-3200
CIR			E	1220-4800	934	1000-4800

Remarks:

\* If approach lighting system is out of service, increase visibility by 800 m.

\*\* If approach lighting system is out of service, increase visibility by 400 m.

## LEMO AD 2.24 AERONAUTICAL CHARTS RELATED TO AN AERODROME <<

The list of charts related to the aerodrome can be found on the link below:

<https://aip.enaire.es/AIP/#LEMO>

## LEMO AD 2.25 VISUAL SEGMENT SURFACE (VSS) PENETRATION

Not applicable.