
TYPE-CERTIFICATE DATA SHEET

UK.TC.BA.00003

for

LINDSTRAND AND SKY HOT AIR BALLOONS

Type Certificate Holder
CAMERON BALLOONS Ltd
St Johns Street
Bedminster
Bristol BS3 4NH
UNITED KINGDOM

UK.21J.0140

Model(s): Lindstrand A type, Lindstrand A type Cloudhopper, Lindstrand S-type, Lindstrand L-type, Lindstrand C-type, Lindstrand B Type, Lindstrand X Type, Lindstrand Special Shape, Sky Hot-Air Balloons.

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Section 1 General (All Types and Variants)

I. General

1. Type / Variant or Model

a) Type:

Lindstrand A type, Lindstrand A type Cloudhopper, Lindstrand S-type, Lindstrand L-type, Lindstrand C-type, Lindstrand B Type, Lindstrand X Type Lindstrand Special Shape, Sky Hot-Air Balloons

b) Variant or Model:

Refer to Sections 2 to 12

2. Type Certificate Holder

Cameron Balloons Ltd.
St Johns Street
Bedminster
Bristol BS3 4NH
United Kingdom

3. Manufacturer

Cameron Balloons Ltd.
St Johns Street
Bedminster
Bristol BS3 4NH
United Kingdom

4. Date of Application

Various, refer to Sections 2 to 12.

5. Approval date

Various, refer to Sections 2 to 12.

II. Certification Basis

1. Reference Date for determining the applicable requirements

Various, refer to Sections 2 to 12.

2. UK Certification Basis

Various, refer to Sections 2 to 12.

3. Airworthiness Standards

British Civil Airworthiness Requirements, Part 31 issue dated 31/8/84 (■ in Tables 1-10).

EASA CS 31HB (final CG9 draft 27 February 2003) (♦ in Tables 1-10).

EASA CS 31HB Issue 1 (♥ in Tables 1-12).

EASA CS 31HB Issue 1, Amendment 1 (♣ in Table 1-12).

4. Special Conditions (SC)

None

5. Equivalent Safety Findings (ESF)

None

6. Deviations

None

III. Technical Characteristics

1. Type Design Definition

Refer to Sections 2 to 12.

2. Description

Manned Free Hot Air Balloons of conventional shape with natural, semi-bulbous or bulbous profiles (Sections 1-8 and 10-12) and not of conventional shape (Section 9). Volumes range from 21 000 to 500 000 ft³ (595 to 14 158 m³). Envelopes are fitted with rip panel, parachute, combination rip panel or rapid deflation systems. Envelope options include rotation vents (turning vents), pressure scoop, skirt, and limited inflated artwork as required. The envelope is attached to the burner load frame / basket using stainless steel flying cables.

Burners (heaters) are specified in single, double, triple or quadruple configurations dependant on envelope size. Each unit incorporates a main burner, quiet burner and pilot light as a minimum.

Baskets are generally of traditional woven cane construction in Open, Single Tee or Double Tee Partitions configurations. The stainless steel suspension cables of the basket attach to the burner load frame and envelope using Karabiners.

The Cloudhopper backpack may be used in place of a basket on smaller envelopes. It consists of a load carrying frame which has a seat for the pilot. The burner and fuel cylinder are attached to this frame. The envelope attaches to the load ring which is integrated with the burner and load frame.

Pressurised fuel cylinders, manufactured from Titanium, Stainless Steel or Aluminium, are available in volumes of 47 to 90 litres. The cylinders have the facility to withdraw the fuel as liquid or vapour as required.

Additional equipment is mounted in the basket as required.

3. Equipment

a) Envelope

Equipment is listed in the Approved Cameron Balloons Flight Manual and supplements - Issue 10 or later approved revision

b) Burner

Refer to Sections 2 to 12 and Cameron Balloons Flight Manual and Supplements - Issue 10 or later approved revision.

Refer to Sections 2 to 12 and Cameron Balloons Flight

c) Basket

Manual and Supplements-Issue 10 or later approved revision.

Refer to Sections 2 to 12.and Cameron Balloons Flight Manual and Supplements-Issue 10 or later approved revision.

4. Mass

Refer to Sections 2 to12.

IV. Operating Limitations

1. Envelope Temperature

The envelope temperature must not exceed 120 °C (250 °F).

2. Minimum Crew

One (Pilot)

3. Maximum Occupants

Not to exceed maximum take-off mass and limitations.

Refer to Approved Aircraft Flight Manual, Issue 10 or later approved revision

4. Fuel

Commercial Propane

5. Other Limitations

With the exception of single occupancy balloons, a minimum of two independent cylinders with provision to supply pilot lights (double burner) are required, three such cylinders for a triple burner, four for a quadruple burner. Extra cylinders may be used.

V. Operating and Service Instructions

1. Flight Manual

Cameron Balloons Flight Manual and Supplements-Issue 10 or later approved revision.

2. Maintenance Manual

Cameron Balloons Maintenance Manual and Supplements-Issue 10 or later approved revision

Inspection shall be in accordance with the latest issue of the inspection schedule - Cameron Balloons Maintenance Manual and Supplements - Issue 10 or later approved revision refers.

VI. Notes

Note 1) For the purpose of maintenance and inspection a log book must be maintained with each hot air balloon envelope. If the burner, basket, instruments and/or cylinders are interchanged, they must be listed in the log book of each envelope with which they are used.

Note 2) The combination of a Lindstrand or Sky Balloons envelope with approved parts or bottom ends from other manufacturers is described in the Flight Manual (see IV).

Section 2 Lindstrand A Type (42 000 – 500 000 ft3)

Manned free hot air balloon of natural shape with multiple gores between 24 and 32 flying wires. The balloon general assembly is defined by drawing EA-001-A-001. The definition of all variants (models) is listed in Table1.

Table 1: Models, Definitions, Limitations and Eligible Equipment

Model	Vol [ft³]	Vol [m³]	Dwg	MTOM [kg]	MLM [kg]	Burner cat.	Basket cat.	Approval Date
LBL 42A	42 000	1 190	EA-042-A-001	420	231	A, B	A, B, C, D	27.07.1995 ■
LBL 56A	56 000	1 590	EA-056-A-001	560	252	A, B	A, B, C, D	20.05.1993 ■
LBL 60A	60 000	1 700	EA-060-A-001	600	255	A, B	A, B, C, D	29.07.1996 ■
LBL 69A	69 000	1 950	EA-069-A-001	690	276	A, B	A, B, C, D	01.06.1993 ■
LBL 77A	77 000	2 180	EA-077-A-001	770	316	A, B	A, B, C, D, E, F, G	20.05.1993 ■
LBL 90A	90 000	2 550	EA-090-A-001	900	378	A, B	A, B, C, D, E, F, G	18.07.1993 ■
LBL 105A	105 000	2 970	EA-105-A-001	1 050	452	A, B	A, B, C, D, E, F, G	20.05.1993 ■
LBL 120A	120 000	3 400	EA-120-A-001	1 200	528	B	D, E, F, G	08.06.1993 ■
LBL 140A	140 000	3 964	EA-140-A-001	1 400	586	B, C	G, H, I, J	28.04.2010 ♥
LBL 150A	150 000	4 250	EA-150-A-001	1 450	652	B, C	G, H, I, J	11.08.1993 ■
LBL 160A	160 000	4 530	EA-160-A-001	1 600	720	B, C	G, H, I, J, K, L, M	29.04.2009 ♦
LBL 180A	180 000	5 100	EA-180-A-001	1 630	750	B, C, D	I, J, K, L, M, N	08.06.1993 ■
LBL 210A	210 000	5 950	EA-210-A-001	1 890	945	B, C, D	I, J, K, L, M, N	24.05.1994 ■
LBL 240A	240 000	6 800	EA-240-A-001	1 940	970	C, D	I, J, K, L, M, N	26.05.1993 ■
LBL 260A	260 000	7 362	EA-260-A-001	2 270	1 135	C, D	I, J, K, L, M, N	02.08.1996 ■
LBL 310A	310 000	8 780	EA-310-A-001	2 700	1 350	C, D	N, O, P, Q	16.07.1993 ■
LBL 317A	317 000	8 976	EA-317-A-001	2 760	1 465	D	N, O, P, Q	20.05.2005 ■
LBL 330A	330 000	9 344	EA-330-A-001	2 875	1 437	D	N, O, P, Q	18.05.1998 ■
LBL 360A	360 000	10 194	EA-360-A-001	3 132	1 556	D	N, O, P, Q	05.02.2007 ♦
LBL 400A	400 000	11 327	EA-400-A-001	3 400	1 700	D	N, O, P, Q	02.06.1995 ■
LBL 425A	425 000	12 034	EA-425-A-001	3 610	1 800	D	N, O, P, Q	15.05.2002 ■
LBL 450A	450 000	12 742	EA-450-A-001	3 825	1 900	D	N, O, P, Q	09.03.2012 ♥
LBL 500A	500 000	14 158	EA-500-A-001	4 250	2 125	D	Q, R	25.02.2013 ♣

Section 3 Lindstrand A Type Cloudhopper (21,000 - 35,000 ft³)

Manned free hot air balloon of natural shape with multiple gores between 24 and 32 flying wires. The balloon general assembly is defined by drawing EA-001-A-002. The definition of all variants (models) is listed in Table 2.

Table 2: Models, Definitions, Limitations and Eligible Equipment

Model	Vol [ft ³]	Vol [m ³]	Dwg	MTOM [kg]	MLM [kg]	Burner cat.	Basket cat.	Approval Date
LBL 21A	21,000	595	EA-021-A-001	210	137	A	A	16.06.94 ■
LBL 25A	25,000	708	EA-025-A-001	250	141	A	A	28.09.94 ■
LBL 31A	31,000	878	EA-031-A-001	310	148	A	A	04.08.94 ■
LBL 35A	35,000	991	EA-035-A-001	350	165	A	A	11.02.03 ■

Section 4 Lindstrand S Type (210,000 - 317,000 ft³)

Manned free hot air balloon of natural shape with 20 gores and 20 flying wires. The balloon general assembly is defined by drawing ES-001-A-001. The definition of all variants (models) is listed in Table 3.

Table 3: Models, Definitions, Limitations and Eligible Equipment

Model	Vol [ft ³]	Vol [m ³]	Dwg	MTOM [kg]	MLM [kg]	Burner cat.	Basket cat.	Approval Date
LBL 210S	210,000	5,950	ES-210-A-001	1,890	945	B, C, D	I, J, K, L, M, N	04.04.96 ■
LBL 260S	260,000	7,362	ES-260-A-001	2,270	1,135	C, D	I, J, K, L, M, N	16.04.98 ■
LBL 317S	317,000	8,976	ES-317-A-001	2,930	1,465	D	N, O, P, Q	07.04.98 ■

Section 5 Lindstrand L Type (48,000 ft³)

Manned free hot air balloon of natural shape with 12 gores and 12 flying wires. The balloon general assembly is defined by drawing EL-048-A-001. The definition of all variants (models) is listed in Table 4.

Table 4: Models, Definitions, Limitations and Eligible Equipment

Model	Vol [ft ³]	Vol [m ³]	Dwg	MTOM [kg]	MLM [kg]	Burner cat.	Basket cat.	Approval Date
LBL 48L	48,000	1,358	EL-048-A-001	480	168	A	A, B, C,	13.10.98 ■

Section 6 Lindstrand C Type (400,000 - 600,000 ft³)

Manned free hot air balloon of natural shape with 32 gores and 32 flying wires. The balloon general assembly is defined by drawing EC-001-A-001. The definition of all variants (models) is listed in Table 5.

Table 5: Models, Definitions, Limitations and Eligible Equipment

Model	Vol [ft ³]	Vol [m ³]	Dwg	MTOM [kg]	MLM [kg]	Burner cat.	Basket cat.	Approval Date
LBL 400C	400 000	11 326	EC400-A-001	3 400	1 700	D	Q	09.02.2011 ■♥
LBL 500C	500 000	14 158	EC-500-A-001	4 250	2 125	D	Q, R	30.04.2002 ■
LBL 600C	600 000	16 886	EC-600-A-001	5 100	2 550	D	R	06.06.2003 ■

Section 7 Lindstrand B Type (56,000 - 105,000 ft³)

Manned free hot air balloon of natural shape with multiple gores between 24 and 32 flying wires. The balloon general assembly is defined by drawing EB-001-A-001. The definition of all variants (models) is listed in Table 6.

Table 6: Models, Definitions, Limitations and Eligible Equipment

Model	Vol [ft ³]	Vol [m ³]	Dwg	MTOM [kg]	MLM [kg]	Burner cat.	Basket cat.	Approval Date
LBL 56B	56,000	1,590	EB-056-A-001	560	252	A, B	A, B, C, D	07.06.99 ■
LBL 69B	69,000	1,950	EB-069-A-001	690	276	A, B	A, B, C, D	02.10.95 ■
LBL 77B	77,000	2,180	EB-077-A-001	770	316	A, B	A, B, C, D	21.10.94 ■
LBL 90B	90,000	2,550	EB-090-A-001	900	378	A, B	A, B, C, D, E, F, G	14.01.97 ■
LBL 105B	105,000	2,970	EB-105-A-001	1,050	452	A, B	A, B, C, D, E, F, G	03.04.96 ■

Section 8 Lindstrand X Type (60,000 - 77,000 ft³)

CAA UK Type Certificate Data Sheet reference: BB27

Previous EASA Type Certificate Data Sheet reference: EASA.BA.506

Manned free hot air balloon of natural shape with multiple gores between 24 and 32 flying wires. The balloon general assembly is defined by drawing EB-001-A-001. The definition of all variants (models) is listed in Table 7.

Table 7: Models, Definitions, Limitations and Eligible Equipment

Model	Vol [ft ³]	Vol [m ³]	Dwg	MTOM [kg]	MLM [kg]	Burner cat.	Basket cat.	Approval Date
LBL 60X	60 000	1 700	EX-060-A-001	600	255	A, B	A, B, C, D	09.06.2003
LBL 69X	69 000	1 950	EX-069-A-001	690	276	A, B	A, B, C, D	12.05.2004
LBL 77X	77 000	2 180	EX-077-A-001	770	316	A, B	A, B, C, D	23.05.2014

Section 9 Lindstrand Special Shape Type (21,000 - 170,000 ft³)

Previous EASA Type Certificate Data Sheet reference: EASA.BA.120

Manned free hot air balloon of irregular shapes with multiple gores and between 8 and 32 flying cables. The envelope general assembly is defined by drawing SS-100-A-001. The definition of all variants (models) is listed in Table 8.

Table 8: Special Shapes; Definitions, Limitations and Eligible Equipment

Model	Vol [ft ³]	Vol [m ³]	Dwg	MTOM [kg]	MLM [kg]	Burner cat.	Basket cat.	Approval Date
LBL Cake	120 000	3 400	SS-001-A-001	1 200	-	B	C, D, E, F, G	10.06.1993 ■
LBL Pink Panther	90 000	2 550	SS-002-A-001	900	-	A, B	C, D, E, F, G	14.06.1993 ■
LBL Salami	115 000	3 256	SS-003-A-001	1 150	-	B	E, F, G	26.10.1993 ■
LBL Flying M	105 000	2 970	SS-004-A-001	1 050	-	B	C, D, E, F, G	15.04.1994 ■
LBL Ice Cream Cone	105 000	2 970	SS-005-A-001	1 050	-	B	C, D, E, F, G	14.01.1994 ■

Model	Vol [ft³]	Vol [m³]	Dwg	MTOM [kg]	MLM [kg]	Burner cat.	Basket cat.	Approval Date
LBL Newspaper	90 000	2 550	SS-006-A-001	900	-	A, B	C, D, E, F, G	26.05.1994 ■
LBL Lozenge	105 000	2 970	SS-007-A-001	1 050	-	B	C, D, E, F, G	10.02.1994 ■
LBL Fruit Bottle	105 000	2 970	SS-008-A-001	1 050	-	B	C, D, E, F, G	18.05.1994 ■
LBL Drinks Can	90 000	2 550	SS-009-A-001	900	-	A, B	C, D, E, F, G	11.07.1994 ■
LBL Armchair	105 000	2 970	SS-010-A-001	1 050	-	B	C, D, E, F, G	14.11.1994 ■
LBL Four	105 000	2 970	SS-011-A-001	1 050	-	B	C, D, E, F, G	12.01.1995 ■
LBL RR21	21 000	596	SS-012-A-001	210	-	A	A, B	29.08.1995 ■
LBL Cornetto	105 000	2 970	SS-013-A-001	1 050	-	B	C, D, E, F, G	17.11.1995 ■
LBL Dreher Bottle	90 000	2 550	SS-014-A-001	900	-	A, B	C, D, E, F, G	27.03.1996 ■
LBL Stove	105 000	2 970	SS-015-A-001	1 050	-	B	C, D, E, F, G	10.05.1996 ■
LBL Man	120 000	3 400	SS-016-A-001	1 200	-	B	E, F, G, H, I, J	19.06.1996 ■
LBL Bananas	105 000	2 970	SS-017-A-001	1 050	-	B	C, D, E, F, G	24.09.1996 ■
LBL Flowers	105 000	2 970	SS-018-A-001	1 050	-	B	C, D, E, F, G	01.10.1996 ■
LBL Bear	105 000	2 970	SS-019-A-001	1 050	-	B	C, D, E, F, G	01.10.1996 ■
LBL Racing Car	120 000	3 400	SS-020-A-001	1 200	-	B	E, F, G, H, I, J	09.10.1996 ■
LBL Saloon Car	90 000	2 550	SS-021-A-001	900	-	A, B	C, D, E, F, G	04.10.1996 ■
LBL J& B Bottle	90 000	2 550	SS-022-A-001	900	-	A, B	C, D, E, F, G	26.08.1997 ■
LBL Telewest Sphere	105 000	2 973	SS-023-A-001	1 050	-	B	C, D, E, F, G	11.08.1997 ■
LBL Pop Can	90 000	2 548	SS-024-A-001	900	-	A, B	C, D, E, F, G	29.09.1997 ■
LBL Flying Pig	105 000	2 973	SS-025-A-001	1 050	-	B	C, D, E, F, G	11.12.1997 ■
LBL Octopus	90 000	2 550	SS-026-A-001	900	-	A, B	C, D, E, F, G	26.02.1998 ■
LBL Syrup Bottle	90 000	2 550	SS-027-A-001	900	-	A, B	C, D, E, F, G	15.05.1998 ■
LBL Baby Bel	105 000	2 970	SS-028-A-001	1 050	-	B	C, D, E, F, G	17.07.1998 ■
LBL Box	120 000	3 400	SS-029-A-001	1 200	-	B	E, F, G, H, I, J	23.06.1998 ■
LBL Pharmacist	105 000	2 970	SS-030-A-001	1 050	-	B	C, D, E, F, G	17.06.1999 ■
LBL Battery	105 000	2 970	SS-031-A-001	1 050	-	B	C, D, E, F, G	04.08.1999 ■
LBL Tulips	120 000	3 400	SS-032-A-001	1 200	-	B	E, F, G, H, I, J	10.07.2000 ■
LBL Sun	105 000	2 970	SS-033-A-001	1 050	-	B	C, D, E, F, G	11.08.2000 ■
LBL Bulb	105 000	2 970	SS-034-A-001	1 050	-	B	C, D, E, F, G	29.08.2001 ■

Model	Vol [ft³]	Vol [m³]	Dwg	MTOM [kg]	MLM [kg]	Burner cat.	Basket cat.	Approval Date
LBL Oriental Duck	105 000	2 970	SS-035-A-001	1 050	-	B	C, D, E, F, G	11.10.2002 ■
LBL Dog	105 000	2 970	SS-036-A-001	1 050	-	B	C, D, E, F, G	22.04.2004 ■
LBL Lion	90 000	2 550	SS-037-A-001	900	584	A, B	C, D, E, F, G	16.11.2005 ♦
LBL House	105 000	2 970	SS-038-A-001	1 050	614	B	C, D, E, F, G	11.08.2006 ♦
LBL Motorbike	170 077	4 816	SS-039-A-001	1 700	850	B	C, D, E, F, G	28.04.2010 ♥
LBL Triangle	115 000	3 256	SS-040-A-001	1 200	600	B	C, D, E, F, G	21.03.2013 ♣

Section 10 Sky-16 Series (25 000 - 80 000 ft³)

Manned free hot air balloon with sixteen horizontally cut, semi-bulbous gores and sixteen flying cables. The definition of all variants (models) is listed in Table 9.

Table 9 Sky-16 Series Definitions, Limitations and Eligible Equipment

Model	Vol. (ft³)	Vol. (m³)	Dwg.	MTOM (kg)	MLM (kg)	Burner Cat.	Basket Cat.	Date
25-16	25 000	708	A4/EN/7016/A	250		A	A, B	15/03/99 ■
70-16	70 000	1 982	A4/EN/7016/A	700	-	A, B	B, C, D, E,	09/11/98 ■
80-16	80 000	2 266	A4/EN/8016/A	800	-	A, B	B, C, D, E, F	27/10/98 ■

Section 11 Sky-24 Series (31 000 - 317 000 ft³)

Manned free hot air balloon with twenty-four horizontally cut, smooth gores and twenty-four flying cables. The definition of all variants (models) is listed in Table 10.

Table 10: Sky-24 Series Definitions, Limitations and Eligible Equipment

Model	Vol. (ft³)	Vol. (m³)	Dwg.	MTOM (kg)	MLM (kg)	Burner Cat.	Basket Cat.	Date
31-24	31 000	878	A4/EN/31/A	310	-	A	A, B, C, D	11/04/1996 ■
56-24	56 000	1 586	A4/EN/56/A	560	-	A, B	A, B, C, D	09/12/1996 ■
65-24	65 000	1 840	A4/EN/65/A	650	-	A, B	A, B, C, D, E	03/11/1995 ■
77-24	77 000	2 180	A4/EN/77/A	750	-	A, B	A, B, C, D, E	18/03/1996 ■
90-24	90 000	2 548	A4/EN/90/A	900	-	A, B	A, B, C, D, E, F	13/10/1995 ■
105-24	105 000	2 973	A4/EN/105/A	1 050	525	B	B, C, D, E, F, G	17/12/1995 ■
120-24	120 000	3 398	A4/EN/120/A	1 200	600	B	C, D, E, F, G	07/01/1996 ■
140-24	140 000	3 964	A4/EN/140/A	1 330	665	B, C	C, D, E, F, G, H	03/09/1996 ■
160-24	160 000	4 530	A4/EN/160/A	1 440	720	B, C	F, G, H, I, J, K	03/09/1996 ■
180-24	180 000	5 097	A4/EN/180/A	1 620	810	B, C, D	G, H, I, J, K, L, M	12/12/1995 ■
200-24	200 000	5 663	A4/EN/200/A	1 800	900	B, C, D	G, H, I, J, K, L, M, N	03/11/1995 ■
220-24	220 000	6 230	A4/EN/220/A	1 980	990	B, C, D	H, I, J, K, L, M, N	24/06/1996 ■
240-24	240 000	6 796	A4/EN/240/A	2 160	1 080	C, D	J, K, L, M, N, O, P, Q	23/04/1998 ■
260-24	260 000	7 363	A4/EN/260/A	2 340	1 170	C, D	M, N, O, P, Q	23/04/1998 ■
317-24	317 000	7 929	A4/EN/317/A	2 700	1 350	C, D	M, N, O, P, Q	10/05/1999 ■

Section 12 Sky-28 Series (400 000 - 500 000 ft³)

Manned free hot air balloon with twenty-eight horizontally cut, smooth gores and twenty-eight flying cables. The definition of all variants (models) is listed in Table 11.

Table 11 Sky-28 Series Definitions, Limitations and Eligible Equipment

Model	Vol. (ft³)	Vol. (m³)	Dwg.	MTOM (kg)	MLM (kg)	Burner Cat.	Basket Cat.	Date
400-28	400 000	11 327	A4/EN/400/A	3 600	1 800	D	N, O, P, Q	12/10/1998 ■
500-28	500 000	14 158	A4/EN/500/A	4 250	2 125	D	N, O, P, Q	03/08/1999 ■

Section 13 Administration

I. Acronyms and Abbreviations

Acronym / Abbreviation	Definition
CAA	Civil Aviation Authority
Dwg	Drawing
EASA	European Union Aviation Safety Authority
MLM	Minimum Landing Mass
MTOM	Maximum Take-Off Mass
Vol	Volume

II. Type Certificate Holder Record

TCH Record	Period
Cameron Balloons Ltd St Johns Street Bedminster Bristol BS3 4NH UNITED KINGDOM	Present. No changes.

III. Amendment Record

TCDS Issue No.	TCDS Issue Date	Changes	TC Issue No.	TC Issue Date
1	14 April 2021	This certificate supersedes EASA.BA.021. All Technical data taken from EASA.BA.021 Issue 03	1	14 April 2021

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