

SUPPLEMENTARIES

Table S1: Presentation of the remains background

	Constructor	Aircraft Type	Dating		Excavation site	Causes of the crash	Parts constituting the remains
			Production date	Date of the crash			
Germany	Dornier	Do 217 n° 4749 type K3	1943	15/06/1944	In the Pyrénées Moutains nearby Saint- Gaudens	Crash in the mountain	2 Stringers, 4 plates, numerous rivets
	Focke-Wulf	FW 190 Type A	1940	06-26-1943	Toulouse Blagnac	Collision with another FW190	2 stringers, 2 plates, numerous rivets
	Heinkel	He 111 n° 2214 Type B	July 1937	25-01-1939	South of Tarbes	Crashed into the Pyrénées Mountains	1 stringer, 2 plates, numerous rivets
		He 111 H- 111 n°110070, registration mark GL+ET	April 1943	11-10-1943	Near Albi	Fire in the left engine, loss of control	1 plate, few rivets
	Messerschmitt	Bf 109 n°5145 Type E7	1940	11-11-1943	Pyrénées	Training session	4 plates, numerous rivets
France	Dewoitine	D.520 n°531	1940	08-25-1944	Encausse les thermes near Saint Gaudens	Hit the ground at high speed	5 plates, numerous rivets
		D.338 110070 registration mark F- AQBB	1937	03-23-1938	Pyrénées	Hit a mountain (Sainte-Croix peak)	1 plates, few rivets
	Lioré & Olivier	Léo 45	1939	06-19-1940	Nearby Carcassonne	Bad weather, caught in a storm, lost a wing and crashed	5 plates, numerous rivets
	Latécoère	Latécoère 298	February 1940	06-19-1940	Nearby Montségur-	Bad weather and	1 stringer, 2 plates,

		n°93			Pyrénées Mountains	unexperienced pilot	numerous rivets
		Latécoère 17 n°622 License plate F-AIGL	1927	08-01-1927	Nearby Saint-Gaudens	Bad weather	3 plates, few rivets
UK	Avro	Lancaster	1943	04-06-1944	Toulouse-Montaudran	Explosion	3 plates, 2 stringers, few rivets
	De Havilland	Mosquito	1943	08-12-1944	Pujaudran at the Gers border	Shot down by mistake by a Mustang P-51	1 stringer, 1 cast alloy, 1 wire, few rivets
US	North American Aviation	Mustang P51 D A9A	1943	08-09-1944	Plouigneau (Brittany)	Lost its coolant and crashed	2 plates, 1 wire
		Mustang P51 A	1943	08-06-1943	Morlaix	Hit electric wires and crashed	3 plates, few rivets
	Lockheed	P38 Lightning F-5B-1-LO LAC 2734 n°42-68223	1943	07-31-1944	In sea- Riou Island nearby Marseille	Saint-Exupéry crashed with this airplane.	2 plates, 1 stringer, few rivets

Figure S1:

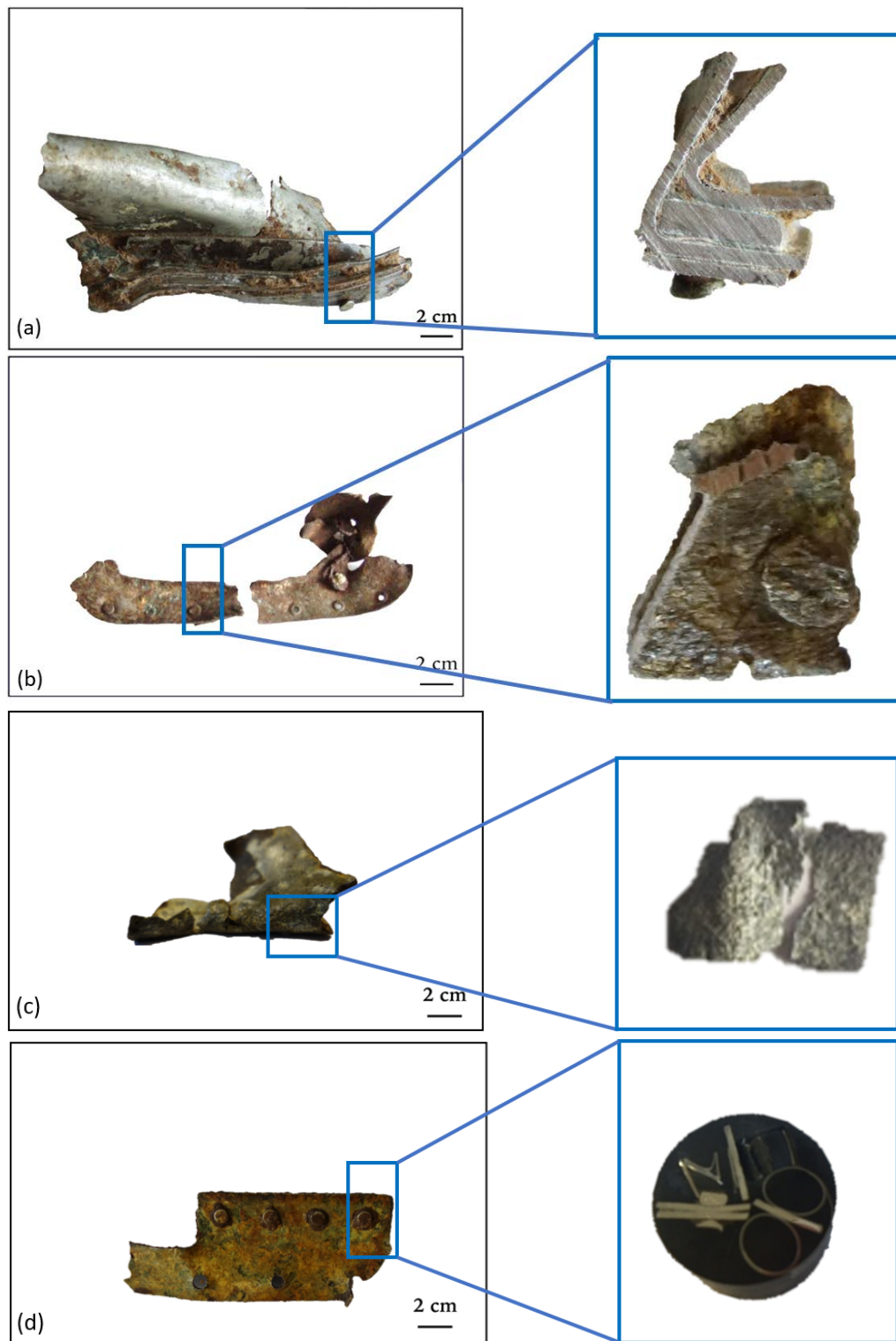


Figure 1 : Figure revealing the studied parts composition. (a) The Bf 109 sample contains 4 plates and 1 rivet; (b) the D.520 sample is composed of 2 plates and 1 rivet; (c) the Lancaster sample consists in 1 plate and (d) the Mustang P-51 sample is composed of 2 plates and 1 rivet.

The collected parts are a bunch of plates as shown in Figure S1. The chemical analyses made on the plates from the same remain (see Table S2) revealed that the plates were made of the same alloy.

Table S2: Number of studied parts and their alloys identification

Remains/ Analyzed part	Nature of the part	Thickness (mm)	Alloy
Bf 109 (composed of 4 plates)	Plate 1	0.5	AlCuMg1
	Plate 2	1.5	
	Plate 3	3	
	Plate 4	1.4	
D.520 part1 (composed of 2 plates)	Plate 1	0.7	Duralumin
	Plate 2	2.0	
D.520 part2	Plate 1	1.0	
Lancaster	Plate 1	1.5	Hiduminium DU Brand
P-51 (composed of two plates)	Plate 1	1.0	24S
	Plate 2	1.0	