## REPORT FROM THE ARBOVIRUS LABORATORY INSTITUT PASTEUR AND ORSTOM BANGUI CENTRAL AFRICAN REPUBLIC

The use of the mosquito Aedes aegypti to detect arboviruses.

During the years 1978 and 1979 studies w/ere continued out at our field station in Bozo (5° 10' N, 18° 30' E) to collect more information on the life cycle of sylvatic yellow fever. A second forest-gallery situated near the village of Bouboui was prospected in 1979.

68 958 <u>Aedes africanus s.l</u>. collected at the station were divided into 2 398 pools and inoculated into suckling mice. All pools collected during the dry season, (december to may) which were negative by this method were imoculated to living <u>Aedes aegypti</u>. After 7 days the grinded mosquitoes are inoculated into suckling mice. The results of this investigation are mentionned (Table I).

Table I s Strains of virus isolated from <u>Aedes</u> <u>africanus</u> <u>s.l.</u> collected in Bozo and Bouboui in 1978-1979.

Year	Imoculation into suckling-mice.				Intrathoracic inoculation to Aedes aegypti.		
	N° of mosquitoes	N° of pools tested	N° of strains isolated		N <sup>o</sup> of mosqui toes	N <sup>©</sup> of pools tested	N° of strains isolated
1978	24 977	906	Chikungunya Orungo Yellow fever West=Nile	33 8 8 1	1 445	85	yellow fever 4,
19 <b>79</b>	43 981	1 492	Orungo West=Nile Zika ArB 7 343(1)	1 2 19 25	5 454	• 202	yellow fever 1

((1) :: ArB 7 343 is a new arthropod=borne virus of Bunyamwera group.

The inoculations to Aedes acquired allowed us to isolate 5 strains of yellow fever virus. 4 of them were isolated at the end of the rainy season. These late isolations show in fact that the epizootic continued over a period of three months instead of the 2 months duration of the former epizootics (1975 and 1977) detected by inoculations into suckling-mice.

The fifth strain was isolated at the beginning of the rainy season and may be the result of a transovarial transmission of yellow fever virus during the preceding dry season.

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