

























	5- Models
> INTRODUCTION	MODELLING THE QUALITY AS FUNCTION OF <u>DURATION</u> OF OBSERVATION
> MAIN GOALS	Case 1: Modelling using the single frequency receivers - Using the durations of observations and the quality of positioning obtained from the experimental tests; - The curve of tendency corresponding to the experimental data and
EXPERIMENTAL TESTS	results is given by the following formula:
> <u>RESULTS</u>	$q_{\rm TF1} = 0.0159 e^{-0.0499 T}$
> MODELS	With :
> <u>CONCLUSION</u>	 q_{TF1}: quality of planimetric positioning with respect to time using one frequency receivers (in m) T: duration of observation (in min) e: the exponential function

_	5- Models
> <u>INTRODUCTION</u>	MODELLING THE QUALITY AS FUNCTION OF <u>DURATION</u> OF OBSERVATION
≻ <u>MAIN GOALS</u>	Case 2: Modelling using the double frequency receivers - Using the durations of observations and the quality of positioning obtained from the experimental tests;
> <u>EXPERIMENTAL</u> <u>TESTS</u>	- The curve of tendency corresponding to the experimental data and results is given by the following formula:
> <u>RESULTS</u>	$q_{\rm TF2} = 0.0205 e^{-0.0347 \rm T}$
> <u>MODELS</u>	With : q _{TF2} : quality of planimetric positioning with respect to time using double
> <u>CONCLUSION</u>	frequency receivers (in m) T : duration of observation (in min) e : the exponential function
	Rq: these models show that the quality of position improves as a function of the increase in the duration of observation

_	5- Models
INTRODUCTION	MODELLING THE QUALITY AS FUNCTION OF THE BASELINE LENGTH
MAIN GOALS	Case 1: Modelling using the single frequency receivers - Observations are used to find the model corresponding to distances between 5 and 20km
• <u>EXPERIMENTAL</u> <u>TESTS</u> • <u>RESULTS</u>	 The deducted model is valid only for this range of distances. The tendency curve corresponding to our data is given by the following model:
MODELS	$q_{\rm DF1} = 0.0002 + 3.10^{-5} {\rm D(km)}$
CONCLUSION	With : q_{DF1} represents the standard deviation of the distance in meters D is the baseline length expressed in km.







