



# Ground measurement acquisition report for the VALERI site **Plan-de-Dieu**

sampled from 5<sup>th</sup> July 2004 to 9<sup>th</sup> July 2004

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People participating to the field experiment:

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# Site coordinates

	Lat-Lon, WGS-84 (degrees)		UTM 31 North, WGS-84 (meters)	
	Lat.	Long.	Easting	Northing
Upper left corner	44.21262997	4.92958441	654150	4897300
Lower right corner	44.18499598	4.96621716	657150	4894300
Center	44.19881438	4.94790506	655650	4895800

# Ground control points

\*This is extracted from the Excel file GPSplandeDieu2004.xls

GCP1	A	7	5	15	25	655466	4896261	crossing Roads Rasteau/cairanne; Domaine Brusset
GCP2	A	7	5			655233	4896356	path inside the vineyards, around ESU1
GCP3	A	7	5	16	35	655200	4896341	path inside the vineyards, around ESU1
GCP4	B	7	6	10	21	656134	4894194	crossing roads D23 / D8, "distillerie"
GCP5	B	7	6			656035	4894504	first path on the left (W) "Bois des dames"
GCP6	B	7	6	10	34	655524	4894071	end of the path, bare soil ploughed
GCP7	B	7	6	10	45	655104	4894493	two pines crossing paths
GCP8	B	7	6	10	50	655331	4894667	path, end of bare soil ploughed
GCP9	B	7	6	10	52	655388	4894711	
GCP10	B	7	6	12	38	655092	4895177	wood's East corner
GCP11	B	7	6	12	40	655016	4895375	wood's North corner
GCP12	B	7	6	12	47	654853	4895267	wood's West corner
GCP13	B	7	6	15	31	655259	4895113	
GCP14	B	7	6	15	35	655855	4895075	cedre crossing path
GCP15	B	7	6	16	18	654997	4894704	little wood

# Description of the site and land cover

## *Category according to IGBP classification*

Cropland.

## *Comments on the land cover*

The site corresponds to vineyards in the South East of France ("Côtes-du-Rhône Village"). Vineyards are very heterogeneous, aging from one year to several, and cultivated using different techniques (gobelet, palissage 1 fil, palissage 3 fils). Among the vineyards, some areas of trees (oaks) can be founded.

## *Topography*

The area is flat at about 100 m altitude.

## *Land cover map*

No land cover map is available.

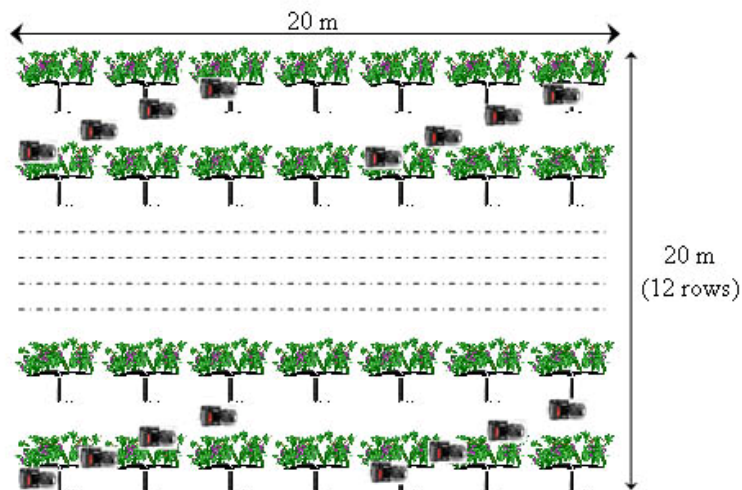
# Spatial Sampling scheme

## *Sensors used for sampling the ESUs*

	Method	Comments
<input checked="" type="checkbox"/>	Hemispherical photographs	
<input type="checkbox"/>	LAI2000	
<input type="checkbox"/>	TRAC	
<input type="checkbox"/>	Ceptometer	
<input type="checkbox"/>	Direct measurements	
<input type="checkbox"/>	Other	

## *Sampling strategy for the ESU*

The sampling strategy has been slightly modified as compared to other VALERI sites to be adapted to vineyards. The ESU is still 20mx20m, the sampling consists in acquiring 2x8 images along the ESU as described in figure 1:



# The high spatial resolution image

## *Satellite*

Satellite used	HRV2, SPOT 2
Level of processing	SpotView Basic
Projection type	UTM 31 North, WGS-84
Acquisition date	29 June 2004

## List of the ESUs

E01	A	7	5	16	17	655125	4896380	11.1	vineyard
E02	A	7	5	16	50	656346	4895086	11.1	vineyard
E03	B	7	6	11	53	655469	4894635	10.1,11.1	vineyard, orientation: N/S
E04	B	7	6	12	24	655252	4894769	9,10.1,11.1	vineyard
E05	B	7	6	14	25	654933	4895196	10.1,11.1	wood
E06	B	7	6			654844	4895395	10.1,11.1	young vineyard, height: 20 cm, row: N/S, no stone
E07	B	7	6	16	6	655217	4894391	9,10,11.1	old vineyard
E08	B	7	6			654792	4894525	10.1,11.1	vineyard
E09	C	7	7			654283	4894762	11.1	vineyard, row: N/S
E10	C	7	7			654341	4894354	11.1	vineyard, row: N/S
E11	C	7	7			654531	4896552	11.1	od vineyard, row: N/S, height: 1.60 m
E12	C	7	7	15	35	654273	4896910	11.1,12.2	vineyard, row: N/S, height: 1.20-1.50m
E13	C	7	7	15	55	654719	4896181	11.1	vineyard, row: E/W, not very developed
E14	C	7	7	16	15	655250	4895882	11.1	vineyard, irrigation
E15	C	7	7	16	35	656011	4896128	11,1	vineyard, irrigation
E16	B	7	8	10	40	655536	4895292	8,11.1	old vineyard, row: N/S
E17	B	7	8	11	18	656518	4895926	11.1	sparse old vineyard, row: N/S
E18	B	7	8	11	40	656850	4896136	11.1	vineyard, not much vegetation, row: N/S, no stone
E19	B	7	8	12	10	656505	4894598	11.1	vineyard
E20	B	7	8	12	32	656233	4894671	11.1,12.2	vineyard, row: N/S
E21	B	7	8	13	0	656832	4895061	11.1	vineyard, row N/S
E22	B	7	8	14	45	656474	4896514	11.1	vineyard, row: E/W
E23	B	7	8	15	2	656610	4896674	11.1,12.2	vineyard
E24	B	7	8	15	25	656319	4897230	11.1	vineyard, row: N/S
E25	B	7	8	15	52	655845	4896731	11.1	old vineyard, row: N/S, no stone
E26	B	7	8	16	16	655283	4897147	11.1,12.2	old vineyard, row: E/W, no stone
E27	B	7	8	16	40	655548	4896994		vineyard, row: N/S, dense vegetation

## Acknowledgements

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