

**INSTRUMENT/METHOD** .....Optical sensor.. **IDENTIFIER** : (given by the data center)

**NAME** : Underwater Video Profiler (U.V.P.2a) .....

*Description of the main instruments/methods used at sea and in the laboratory during the project.*

*Examples : CTD, Current meter, salinometer, sediment trap, spectrometer ...*

**LABORATORY** (Owner of the instrument or who performs the method ):

Laboratoire d'Océanographie Biologique et Ecologie du Plancton Marin (LOBEPM) .....

**Address :**

Station Zoologique

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**CONTACT SCIENTIST :**

**Gabriel GORSKY**

**INSTRUMENT NAME** (60) : Underwater Video Profiler 2a (U.V.P.2a) commonly called PVM2.....

**MANUFACTURER** (60) : **LOBEPM**.....

**MANUFACTURING DATE** (10) : 1989.....

**SERIAL NUMBER** (20) : 2a.....

**DESCRIPTION** (240) :

Version 2a of the UVP. Built for the study of MARINE SNOW and ZOOPLANKTON.

**TECHNICAL CHARACTERISTICS** (240) :

1000 m operational depth

In situ recordings at 25 Hz

1 CCD V700E Sony camera (adjustable lens)

Marine snow mode with structured lights.

92 µm ESD lower limit detection.

> 202 µm ESD lower limit of size measurements.

Zooplankton mode with 150 W, 300 W or 400 W spots

**COMMENTS** (120)

**INSTRUMENT TYPE** (circle the main type) :

**In situ Sensor (default)**

**Transmitter/Receiver**

**On board recorder**

**Drifter**

**Towed platform**

**Expendable sensor**

**OTHER ATTACHED EQUIPEMENT** (in case of complex multi sensor:Platform equipment) (10)

:SBE19 – SBE911 (according to the cruise)

DATE (of updating this form) : 01-22-04

MEASURED PARAMETER 1	CALIBRATION DATE	CRUISES	COMMENTS
Zoom mode for particles > 92 ESD $\mu\text{m}$		Dynaproc Almofront1 Antares3 Eumeli5 Picnic Pauline Euromarge MbpFront Miquel	LOBEPM

**BIBLIOGRAPHICAL REFERENCES (METHODOLOGY) :** .....

Gorsky, G., Aldorf, C., Picheral, M., Kage, M., Garcia, Y. and J. Favole (1992) Vertical distribution of suspended aggregates determined by a new Underwater Video Profiler. Ann. Inst. oceanogr., Paris, 68 (1-2): 275-280.

Gorsky, G., Picheral, M. and L. Stemann (in press) Use of the Underwater Video Profiler for the Study of Aggregate Dynamics in the North Mediterranean. Estuarine, Coastal and Shelf Science.

Picheral, M., Grisoni, J-M., Stemann, L. and G. Gorsky (1998) Underwater Video Profiler for the "in situ" study of suspended particulate matter. OCEANS 98, 28 September- 1 October, IEEE/OES conference, Nice, p. 171-174.

Picheral, M., Stemann, L. et G. Gorsky (1995) Système multiparamétrique pour la mesure et la quantification de la matière particulaire en suspension dans la colonne d'eau. 3e Colloque Européen Des Capteurs pour l'Environnement, Grenoble, 30-31 Mars 1995. pp. 162-165.

Stemann, L. (1998) Analyse spatio-temporelle de la matière particulaire. Thèse Doctorale, Université Paris 6, pp 178.

Stemann, L., Picheral, M. and G. Gorsky. (in press) Diel changes in the vertical distribution of suspended particulate matter in the NW Mediterranean Sea investigated with the Underwater Video Profiler. Deep-Sea Research.