

Annexe I. Tableau descriptif du format OceanSite

DIMENSION
Code
N_DATE_TIME
N_LEVEL
DATE_TIME
CONST1
CONST2
STRING32
STRINGFILT
STRINGFILTUSES

VARIABLES	
Code	Long_name
REFERENCE_DATE_TIME	Date of reference for Julian days
JULD	Julian date relative to REFERENCE_DATE_TIME
DATE_TIME_UTC	ASCII gregorian date and time
LONGITUDE	Longitude of each location
LATITUDE	Latitude of each location
UVEL_SHIP	Eastward ship velocity
VVEL_SHIP	Northward ship velocity
DEPH	Depth of bin center
TEMP_ADCP	ADCP Transducer Temperature
HDG	Ship heading
PTCH	Ship pitch
ROLL	Ship roll
UVEL_ADCP	Eastward absolute ADCP current velocity
VVEL_ADCP	Northward absolute ADCP current velocity
WVEL_ADCP	Upward absolute ADCP current velocity
EVEL_ADCP	Absolute ADCP current velocity error
PGOOD_ADCP	Percent of good data before ensemble averaging
URMS_ADCP	Root mean square Eastward velocity
VRMS_ADCP	Root mean square Northward velocity
WRMS_ADCP	Root mean square Upward velocity
ERMS_ADCP	Root mean square velocity error
ECI	Mean echo intensity
ECI_B1	Echo intensity - Beam 1
ECI_B2	Echo intensity - Beam 2
ECI_B3	Echo intensity - Beam 3
ECI_B4	Echo intensity - Beam 4
CORR	Mean correlation
CORR_B1	Correlation - Beam 1
CORR_B2	Correlation - Beam 2
CORR_B3	Correlation - Beam 3
CORR_B4	Correlation - Beam 4
U_BOTTOM	Bottom track Eastward velocity

V_BOTTOM	Bottom track Northward velocity
W_BOTTOM	Bottom track Upward velocity
RNG_BOTTOM	Bottom range
U_TIDE	Eastward tide velocity
V_TIDE	Northward tide velocity
UVEL_ADCP_CORTIDE	Eastward absolute velocity corrected for tide
VVEL_ADCP_CORTIDE	Northward absolute velocity corrected for tide
WMEAN_DIAG	Mean vertical velocity (flag 1)
MINCORR_PARA_DIAG	Min correlation with ship velocity - Parallel
MAXCORR_PARA_DIAG	Max correlation with ship velocity - Parallel
MINCORR_ORTHO_DIAG	Min correlation with ship velocity - Transverse
MAXCORR_ORTHO_DIAG	Max correlation with ship velocity - Transverse
BATHY	Bathymetry
TX_FREQUENCY	ADCP transmitter frequency
SCALE_FACTOR	Scale factor
BEAM_ANGLE	Beam angle/vertical
ADCP_ANGLE	ADCP angle/ship axis
BIN_LENGTH	Bin length
MIDDLE_BIN1_DEPTH	Depth of first bin center
XOFF	
CORR_PR	
NB_ENS_AVE	Number of averagedping per ensemble
HEAD_MISLG	Heading misalignment
PITCH_MISLG	Pitch misalignment
AMPLI_CORFAC	Correction factor on velocity amplitude
REF_LAYER_ILIM	Reference layer limit index
FLAG2_HALF_WINDOW	Flag 2 half width of window
FLAG2_SCF_MED_DEV	Flag 2 scaling factor median deviation
FLAG3_MAX_DEV	Flag 3 maximum deviation relative to mean profile
FLAG3_SCF_VSHEAR	Flag 3 scaling factor on vertical shear
FLAG4_MAX_VSHEAR	Flag 4 maximum vertical shear
FLAG5_MAX_WVEL	Flag 5 maximum horizontal velocity
FLAG6_INTERF	Interference threshold
FLAG6_MAX_VVEL	Flag 6 maximum vertical velocity
FLAG8_BOTTOM	Flag 8 bottom detection
FILT_TYPE	Type of filtering
FILT_FLAGS	List of flags used before filtering
JULD_ADCP	Julian date ADCP relative to REFERENCE_DATE_TIME
CAS_CURRENT_FLAG	Flag on ADCP current (U,V,W)

ATTRIBUTS	
Code	Description
DATE_CREATION	
SOFTWARE	
ADCP_CONSTRUCTOR	

ADCP_TYPE	
CONVENTIONS	
CRUISE_NAME	
PLATFORM_NUMBER (WMO)	
PLATFORM_NAME	
DATE_UPDATE	
DATA_TYPE	
FORMAT_VERSION	
NAVIGATION_REFERENCE	

Annexe II. Format de fichier OceanSite

```
netcdf ovide_ositee_fv12 {
dimensions:
    N_DATE_TIME = 45490 ;
    N_LEVEL = 50 ;
    DATE_TIME = 14 ;
    CONST1 = 1 ;
    CONST2 = 2 ;
    STRING32 = 32 ;
    STRINGFILT = 15 ;
    STRINGFILTUSES = 4 ;

// global attributes:
    :DATE_CREATION = "24-Nov-2004" ;
    :SOFTWARE = "CascadeVersion 5.3" ;
    :ADCP_CONSTRUCTOR = "RDI" ;
    :ADCP_TYPE = "75nb " ;
    :CONVENTIONS = "OceanSite dictionary" ;
    :CRUISE_NAME = "OVIDE2002" ;
    :PLATFORM_NUMBER = "FNFP" ;
    :PLATFORM_NAME = "THALASSA " ;
    :DATE_UPDATE = "24-Nov-2004" ;
    :DATA_TYPE = "SADCP" ;
    :FORMAT_VERSION = "1.0" ;

-----          Variables de base          -----

variables:
    char REFERENCE_DATE_TIME(DATE_TIME) ;
        REFERENCE_DATE_TIME:long_name = "Date of reference for Julian
days" ;
        REFERENCE_DATE_TIME:convention = "YYYYMMDDHHMISS" ;
        REFERENCE_DATE_TIME:_FillValue = " " ;
    double JULD(N_DATE_TIME) ;
        JULD:long_name = "Julian days relative to REFERENCE_DATE_TIME"
;
        JULD:_FillValue = -999999. ;
    char DATE_TIME.UTC(N_DATE_TIME, DATE_TIME) ;
        DATE_TIME.UTC:long_name = "ASCII gregorian date and time" ;
        DATE_TIME.UTC:convention = "YYYYMMDDHHMISS" ;
        DATE_TIME.UTC:_FillValue = " " ;
    float LATITUDE(N_DATE_TIME) ;
        LATITUDE:long_name = "Latitude of each location" ;
        LATITUDE:units = "degree_north" ;
        LATITUDE:valid_min = -90.f ;
        LATITUDE:valid_max = 90.f ;
        LATITUDE:_FillValue = -999999.f ;
    float LONGITUDE(N_DATE_TIME) ;
        LONGITUDE:long_name = "Longitude of each location" ;
        LONGITUDE:units = "degree_east" ;
        LONGITUDE:valid_min = -180.f ;
        LONGITUDE:valid_max = 180.f ;
        LONGITUDE:_FillValue = -999999.f ;
    float UVEL_SHIP(N_DATE_TIME) ;
        UVEL_SHIP:units = "meter per second" ;
        UVEL_SHIP:long_name = "Eastward ship velocity" ;
        UVEL_SHIP:valid_min = -20.f ;
        UVEL_SHIP:valid_max = 20.f ;
        UVEL_SHIP:_FillValue = -999999.f ;
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float VVEL_SHIP(N_DATE_TIME) ;
    VVEL_SHIP:long_name = "Northward ship velocity" ;
    VVEL_SHIP:units = "meter per second" ;
    VVEL_SHIP:valid_min = -20.f ;
    VVEL_SHIP:valid_max = 20.f ;
    VVEL_SHIP:_FillValue = -999999.f ;
float DEPH(N_LEVEL) ;
    DEPH:long_name = "Depth of bin center" ;
    DEPH:units = "meter" ;
    DEPH:valid_min = -12000.f ;
    DEPH:valid_max = 0.f ;
    DEPH:_FillValue = -999999.f ;
float TEMP_ADCP(N_DATE_TIME) ;
    TEMP_ADCP:long_name = "ADCP transducer temperature" ;
    TEMP_ADCP:units = "degree_Celsius" ;
    TEMP_ADCP:valid_min = -5.f ;
    TEMP_ADCP:valid_max = 45.f ;
    TEMP_ADCP:_FillValue = -999999.f ;
float HDG(N_DATE_TIME) ;
    HDG:long_name = "Ship heading" ;
    HDG:units = "degree" ;
    HDG:valid_min = -360.f ;
    HDG:valid_max = 360.f ;
    HDG:_FillValue = -999999.f ;
float PTCH(N_DATE_TIME) ;
    PTCH:long_name = "Ship pitch" ;
    PTCH:units = "degree" ;
    PTCH:valid_min = -360.f ;
    PTCH:valid_max = 360.f ;
    PTCH:_FillValue = -999999.f ;
float ROLL(N_DATE_TIME) ;
    ROLL:long_name = "Ship roll" ;
    ROLL:units = "degree" ;
    ROLL:valid_min = -360.f ;
    ROLL:valid_max = 360.f ;
    ROLL:_FillValue = -999999.f ;
float UVEL_ADCP(N_DATE_TIME, N_LEVEL) ;
    UVEL_ADCP:long_name = "Eastward absolute ADCP current velocity"
;
    UVEL_ADCP:units = "meter per second" ;
    UVEL_ADCP:valid_min = -20.f ;
    UVEL_ADCP:valid_max = 20.f ;
    UVEL_ADCP:_FillValue = -999999.f ;
float VVEL_ADCP(N_DATE_TIME, N_LEVEL) ;
    VVEL_ADCP:long_name = "Northward absolute ADCP current
velocity" ;
    VVEL_ADCP:units = "meter per second" ;
    VVEL_ADCP:valid_min = -20.f ;
    VVEL_ADCP:valid_max = 20.f ;
    VVEL_ADCP:_FillValue = -999999.f ;
float WVEL_ADCP(N_DATE_TIME, N_LEVEL) ;
    WVEL_ADCP:long_name = "Upward absolute ADCP current velocity" ;
    WVEL_ADCP:units = "meter per second" ;
    WVEL_ADCP:valid_min = -20.f ;
    WVEL_ADCP:valid_max = 20.f ;
    WVEL_ADCP:_FillValue = -999999.f ;
float EVEL_ADCP(N_DATE_TIME, N_LEVEL) ;
    EVEL_ADCP:long_name = "Absolute ADCP current velocity error" ;
    EVEL_ADCP:units = "meter per second" ;
    EVEL_ADCP:valid_min = -20.f ;
    EVEL_ADCP:valid_max = 20.f ;

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        EVEL_ADCP:_FillValue = -999999.f ;
float  PGOOD_ADCP(N_DATE_TIME, N_LEVEL) ;
        PGOOD_ADCP:long_name = "Percent of good data before ensemble
averaging" ;
        PGOOD_ADCP:units = "percent" ;
        PGOOD_ADCP:comment = "Number of good data = PGOOD * NB_ENS_AVE"
;

        PGOOD_ADCP:valid_min = 0.f ;
        PGOOD_ADCP:valid_max = 100.f ;
        PGOOD_ADCP:_FillValue = -999999.f ;
float  URMS_ADCP(N_DATE_TIME, N_LEVEL) ;
        URMS_ADCP:long_name = "Root mean square Eastward velocity" ;
        URMS_ADCP:units = "meter per second" ;
        URMS_ADCP:valid_min = -20.f ;
        URMS_ADCP:valid_max = 20.f ;
        URMS_ADCP:_FillValue = -999999.f ;
float  VRMS_ADCP(N_DATE_TIME, N_LEVEL) ;
        VRMS_ADCP:long_name = "Root mean square Northward velocity" ;
        VRMS_ADCP:units = "meter per second" ;
        VRMS_ADCP:valid_min = -20.f ;
        VRMS_ADCP:valid_max = 20.f ;
        VRMS_ADCP:_FillValue = -999999.f ;
float  WRMS_ADCP(N_DATE_TIME, N_LEVEL) ;
        WRMS_ADCP:long_name = "Root mean square Upward velocity" ;
        WRMS_ADCP:units = "meter per second" ;
        WRMS_ADCP:valid_min = -20.f ;
        WRMS_ADCP:valid_max = 20.f ;
        WRMS_ADCP:_FillValue = -999999.f ;
float  ERMS_ADCP(N_DATE_TIME, N_LEVEL) ;
        ERMS_ADCP:long_name = "Root mean square velocity error" ;
        ERMS_ADCP:units = "meter per second" ;
        ERMS_ADCP:valid_min = -20.f ;
        ERMS_ADCP:valid_max = 20.f ;
        ERMS_ADCP:_FillValue = -999999.f ;
float  ECI(N_DATE_TIME, N_LEVEL) ;
        ECI:long_name = "Mean echo intensity" ;
        ECI:units = "count" ;
        ECI:_FillValue = -999999.f ;
float  U_BOTTOM(N_DATE_TIME) ;
        U_BOTTOM:long_name = "Bottom track Eastward velocity" ;
        U_BOTTOM:units = "meter per second" ;
        U_BOTTOM:valid_min = -20.f ;
        U_BOTTOM:valid_max = 20.f ;
        U_BOTTOM:_FillValue = -999999.f ;
float  V_BOTTOM(N_DATE_TIME) ;
        V_BOTTOM:long_name = "Bottom track Northward velocity" ;
        V_BOTTOM:units = "meter per second" ;
        V_BOTTOM:valid_min = -20.f ;
        V_BOTTOM:valid_max = 20.f ;
        V_BOTTOM:_FillValue = -999999.f ;
float  W_BOTTOM(N_DATE_TIME) ;
        W_BOTTOM:long_name = "Bottom track Upward velocity" ;
        W_BOTTOM:units = "meter per second" ;
        W_BOTTOM:valid_min = -20.f ;
        W_BOTTOM:valid_max = 20.f ;
        W_BOTTOM:_FillValue = -999999.f ;
float  RNG_BOTTOM(N_DATE_TIME) ;
        RNG_BOTTOM:long_name = "Bottom range" ;
        RNG_BOTTOM:units = "meter" ;
        RNG_BOTTOM:_FillValue = -999999.f ;
float  TX_FREQUENCY(CONST1) ;

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        TX_FREQUENCY:long_name = "ADCP transmitter frequency" ;
        TX_FREQUENCY:units = "kilo hertz" ;
        TX_FREQUENCY:_FillValue = -999999.f ;
float SCALE_FACTOR(CONST1) ;
        SCALE_FACTOR:long_name = "Scale factor" ;
        SCALE_FACTOR:_FillValue = -999999.f ;
float BEAM_ANGLE(CONST1) ;
        BEAM_ANGLE:long_name = "Beam angle/vertical" ;
        BEAM_ANGLE:units = "degree" ;
        BEAM_ANGLE:_FillValue = -999999.f ;
float ADCP_ANGLE(CONST1) ;
        ADCP_ANGLE:long_name = "ADCP angle/ship axis" ;
        ADCP_ANGLE:units = "degree" ;
        ADCP_ANGLE:_FillValue = -999999.f ;
float BIN_LENGTH(CONST1) ;
        BIN_LENGTH:long_name = "Bin length" ;
        BIN_LENGTH:units = "meter" ;
        BIN_LENGTH:_FillValue = -999999.f ;
float MIDDLE_BIN1_DEPTH(CONST1) ;
        MIDDLE_BIN1_DEPTH:long_name = "Depth of first bin center" ;
        MIDDLE_BIN1_DEPTH:units = "meter" ;
        MIDDLE_BIN1_DEPTH:_FillValue = -999999.f ;
float NB_ENS_AVE(CONST1) ;
        NB_ENS_AVE:long_name = "Number of averegping per ensemble" ;
        NB_ENS_AVE:_FillValue = -999999.f ;
float HEAD_MISLG(CONST1) ;
        HEAD_MISLG:long_name = "Heading misalignement" ;
        HEAD_MISLG:units = "degree" ;
        HEAD_MISLG:_FillValue = -999999.f ;
float PITCH_MISLG(CONST1) ;
        PITCH_MISLG:long_name = "Pitch misalignement" ;
        PITCH_MISLG:units = "degree" ;
        PITCH_MISLG:_FillValue = -999999.f ;
float AMPLI_CORFAC(CONST1) ;
        AMPLI_CORFAC:long_name = "Correction factor on velocity
amplitude" ;
        AMPLI_CORFAC:_FillValue = -999999.f ;
double JULD_ADCP(N_DATE_TIME) ;
        JULD_ADCP:long_name = "Julian days ADCP relative to
REFERENCE_DATE_TIME" ;
        JULD_ADCP:_FillValue = -999999. ;
float XOFF(CONST1) ;
float CORR_PR(CONST1) ;

```

----- Variables ajoutées ou modifiées au cours de l'exploitation -----

```

int REF_LAYER_ILIM(CONST2) ;
        REF_LAYER_ILIM:long_name = "Reference layer limit index" ;
        REF_LAYER_ILIM:_FillValue = -999999 ;

```

```

float CAS_CURRENT_FLAG(N_DATE_TIME, N_LEVEL) ;
        CAS_CURRENT_FLAG:long_name = "Flag on ADCP current (U,V,W)" ;
        CAS_CURRENT_FLAG:valid_min = 0s ;
        CAS_CURRENT_FLAG:valid_max = 10s ;
        CAS_CURRENT_FLAG:_FillValue = -99999.f ;
int FLAG2_HALF_WINDOW ;
        FLAG2_HALF_WINDOW:long_name = "Flag 2 half width of window" ;
        FLAG2_HALF_WINDOW:_FillValue = -999999 ;
float FLAG2_SCF_MED_DEV(CONST1) ;

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de référence

Nettoyage

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        FLAG2_SCF_MED_DEV:long_name = "Flag 2 scaling factor median
deviation" ;
        FLAG2_SCF_MED_DEV:_FillValue = -999999.f ;
        int FLAG3_MAX_DEV(CONST1) ;
        FLAG3_MAX_DEV:long_name = "Flag 3 maximum deviation relative to
mean profile" ;
        FLAG3_MAX_DEV:_FillValue = -999999 ;
        float FLAG3_SCF_VSHEAR(CONST1) ;
        FLAG3_SCF_VSHEAR:long_name = "Flag 3 scaling factor on vertical
shear" ;
        FLAG3_SCF_VSHEAR:_FillValue = -999999.f ;
        float FLAG4_MAX_VSHEAR(CONST1) ;
        FLAG4_MAX_VSHEAR:long_name = "Flag 4 maximum vertical shear" ;
        FLAG4_MAX_VSHEAR:units = "meter per second" ;
        FLAG4_MAX_VSHEAR:_FillValue = -999999.f ;
        float FLAG5_MAX_WVEL(CONST1) ;
        FLAG5_MAX_WVEL:long_name = "Flag 5 maximum horizontal velocity"
;
        FLAG5_MAX_WVEL:units = "meter per second" ;
        FLAG5_MAX_WVEL:_FillValue = -999999.f ;
        float FLAG6_MAX_VVEL(CONST1) ;
        FLAG6_MAX_VVEL:long_name = "flag 6 - maximum vertical velocity"
;
        FLAG6_MAX_VVEL:units = "meter per second" ;
        FLAG6_MAX_VVEL:_FillValue = -999999.f ;
        int FLAG6_INTERF(CONST1) ;
        FLAG6_INTERF:long_name = "Interference threshold" ;
        FLAG6_INTERF:_FillValue = -999999 ;
        int FLAG8_BOTTOM ;
        FLAG8_BOTTOM:long_name = "Flag 8 bottom detection" ;
        FLAG8_BOTTOM:comment = "0 = no detection; 1 = ADCP bottom
range; 2 = external bathymetry" ;
        FLAG8_BOTTOM:_FillValue = -999999 ;

```

```

-----

float U_TIDE(N_DATE_TIME) ;
        U_TIDE:long_name = "Eastward tide velocity" ;
        U_TIDE:units = "meter per second" ;
        U_TIDE:valid_min = -20.f ;
        U_TIDE:valid_max = 20.f ;
        U_TIDE:_FillValue = -999999.f ;
float V_TIDE(N_DATE_TIME) ;
        V_TIDE:long_name = "Northward tide velocity" ;
        V_TIDE:units = "meter per second" ;
        V_TIDE:valid_min = -20.f ;
        V_TIDE:valid_max = 20.f ;
        V_TIDE:_FillValue = -999999.f ;
float UVEL_ADCP_CORTIDE(N_DATE_TIME, N_LEVEL) ;
        UVEL_ADCP_CORTIDE:long_name = "Eastward absolute velocity
corrected for tide" ;
        UVEL_ADCP_CORTIDE:units = "meter per second" ;
        UVEL_ADCP_CORTIDE:valid_min = -20.f ;
        UVEL_ADCP_CORTIDE:valid_max = 20.f ;
        UVEL_ADCP_CORTIDE:_FillValue = -999999.f ;
float VVEL_ADCP_CORTIDE(N_DATE_TIME, N_LEVEL) ;
        VVEL_ADCP_CORTIDE:long_name = "Northward absolute velocity
corrected for tide" ;
        VVEL_ADCP_CORTIDE:units = "meter per second" ;
        VVEL_ADCP_CORTIDE:valid_min = -20.f ;
        VVEL_ADCP_CORTIDE:valid_max = 20.f ;

```

Nettoyage

Ajout marée


```
VVEL_ADCP_CORTIDE:_FillValue = -999999.f ;
```

```
-----  
float WMEAN_DIAG(CONST1) ;  
    WMEAN_DIAG:long_name = "Mean vertical velocity (flag 1)" ;  
    WMEAN_DIAG:units = "meter per second" ;  
    WMEAN_DIAG:valid_min = -2.f ;  
    WMEAN_DIAG:valid_max = 2.f ;  
    WMEAN_DIAG:_FillValue = -999999.f ;  
float MINCORR_PARA_DIAG(CONST1) ;  
    MINCORR_PARA_DIAG:long_name = "Min correlation with ship  
velocity - Parallel" ;  
    MINCORR_PARA_DIAG:units = "meter per second" ;  
    MINCORR_PARA_DIAG:_FillValue = -999999.f ;  
float MAXCORR_PARA_DIAG(CONST1) ;  
    MAXCORR_PARA_DIAG:long_name = "Max correlation with ship  
velocity - Parallel" ;  
    MAXCORR_PARA_DIAG:units = "meter per second" ;  
    MAXCORR_PARA_DIAG:_FillValue = -999999.f ;  
float MINCORR_ORTHO_DIAG(CONST1) ;  
    MINCORR_ORTHO_DIAG:long_name = "Min correlation with ship  
velocity - Transverse" ;  
    MINCORR_ORTHO_DIAG:units = "meter per second" ;  
    MINCORR_ORTHO_DIAG:_FillValue = -999999.f ;  
float MAXCORR_ORTHO_DIAG(CONST1) ;  
    MAXCORR_ORTHO_DIAG:long_name = "Max correlation with ship  
velocity - Transverse" ;  
    MAXCORR_ORTHO_DIAG:units = "meter per second" ;  
    MAXCORR_ORTHO_DIAG:_FillValue = -999999.f ;  
-----
```

```
float BATHY(N_DATE_TIME) ;  
    BATHY:long_name = "Bathymetrie" ;  
    BATHY:units = "meter" ;  
    BATHY:valid_min = -12000.f ;  
    BATHY:valid_max = 0.f ;  
    BATHY:_FillValue = -999999.f ;  
-----
```

```
char FILT_TYPE(StringFILT) ;  
    FILT_TYPE:long_name = "Type of filtering" ;  
char FILT_FLAGS(StringFILTUSES) ;  
    FILT_FLAGS:long_name = "List of flags used before filtering" ;
```

```
}
```

Informations campagne

Informations campagne

Ajout bathy

Filtrage

