OBSERVATIONS OCEANOGRAPHIQUES EFFECTUEES EN 1982
Observations océanographiques effectuées en 1982

Par
Aïssatou Dia(1)

Introduction

Dans ce rapport sont présentées les données collectées au cours de l'année 1982, à bord du N.O. Laurent Amaro et du N.O. Capricorne, dans le cadre du programme "Étude de l'Environnement côtier au sud du Cap Vert (Sénégal)".

De février à juin, puis d'août à octobre 1982, nous avons effectué 7 campagnes dans les eaux du plateau continental sud du Sénégal.

Les résultats numériques des différentes campagnes sont présentés dans les tableaux qui suivent.

Mesures effectuées : température, transparence de l'eau, salinité, oxygène dissous, nitrates, phosphates, silicates et pigments chlorophylliens.

Matériel et méthode

En fonction de la disponibilité des bateaux, nous avons effectué différents types de couvertures.

Les zones étudiées ainsi que la position des stations sont présentées dans lesfigures (1.2) et tableaux (1.2). Les prélèvements et les mesures sont effectués aux niveaux 0,5, 10, 20, 30 ou 35, 50, 75 ou 80, 100 et 150 mètres.

Le choix des méthodes d'analyse a été dicté par les possibilités du laboratoire de physique et chimie du CRODT.

Température : Elles sont mesurées à l'aide de thermomètres à renversement gradués en degrés centigrades.

Salinité : Dosage par mesure de conductivité au salinomètre à induction GRUN DY modèle n° 6230 N.

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Oxygène : Les dosages sont effectués selon la méthode de WINKLER, modifiée par STRICKLAND et PARSONS (1072) avec une mesure potentiométrique du "dead stop end point".

Nitrates : Dosage par analyse automatique sur chaîne Technicon Auto Analyzer. La méthode utilisée est basée sur celle d'ARMSTRONG et al., (1967).

Phosphates : Le dosage du phosphore minéral réactif est réalisé par spectrophotométrie selon la méthode manuelle décrite par STRICKLAND et PARSONS (1972).

Silicates : Dosage au spectrophotomètre (STRICKLAND et PARSONS, 1972) par mesure de la forme réduite du complexe (silicate+molybdate d'ammonium)

Chlorophylle : Elle a été dosée au fluorimètre TURNER III étalonné au spectrophotomètre. Le principe du dosage a été défini par PAGES (1981). Après filtration de l'eau de mer sur les membranes en fibre de verre (WHATMAN GF/C), les filtres sont conservés au froid à 15°C. L'extraction s'effectue à l'éthanol. Les résultats sont exprimés en ug/l.

Transparence : Elle a été mesurée par la méthode classique du disque de Secchi.
Figure 1: Position des stations hydrologiques
TABLEAU 1. : Coordonnées des stations

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SORTIE LAURENT-AMARO 82/02
DU 8-12 FEVRIER 1982
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| Fond: 10 m        |               |           |          |         |          |            |            |           |
| Transparence: 5 m |               |           |          |         |          |            |            |           |
| 0                 | 15.55         | 35.52     | 26.26    | 2.84    | 50.3     | 6.10       | 3.55       | 2.8       |
| 5                 | 15.45         | 35.52     | 26.29    | 2.97    | 52.3     | 7.50       | 3.55       | 1.1       |
| 10                | 14.85         | 35.51     | 26.41    | 1.82    | 31.7     | 10.50      | 3.90       | 0.4       |

| Station 10         |               |           |          |         |          |            |            |           |
| Date: 9.2.82      |               |           |          |         |          |            |            |           |
| Heure: 11h 10     |               |           |          |         |          |            |            |           |
| Fond: 10 m        |               |           |          |         |          |            |            |           |
| Transparence: 5 m |               |           |          |         |          |            |            |           |
| 0                 | 15.45         | 35.50     | 26.27    | 3.16    | 55.9     | 9.20       | 1.5        |           |
| 5                 | 15.30         | 35.49     | 26.30    | 2.97    | 52.3     | 7.50       | 3.55       | 1.1       |
| 10                | 14.50         | 35.48     | 26.47    | 1.98    | 34.3     | 10.50      | 3.90       | 0.4       |

| Station 11         |               |           |          |         |          |            |            |           |
| Date: 9.2.82      |               |           |          |         |          |            |            |           |
| Heure: 11h 55     |               |           |          |         |          |            |            |           |
| Fond: 27 m        |               |           |          |         |          |            |            |           |
| Transparence: 6 m |               |           |          |         |          |            |            |           |
| 0                 | 16.15         | 35.35     | 26.00    | 4.11    | 73.6     | 6.90       | 2.6        |           |
| 5                 | 16.00         | 35.54     | 26.10    | 4.10    | 73.1     | 6.90       | 2.6        |           |
| 10                | 15.60         | 35.58     | 26.30    | 3.64    | 66.5     | 6.90       | 2.6        |           |
| 25                | 14.45         | 35.46     | 26.47    | 2.38    | 41.1     | 6.90       | 2.6        |           |

| Station 13         |               |           |          |         |          |            |            |           |
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| Heure: 13h 45     |               |           |          |         |          |            |            |           |
| Fond: 64 m        |               |           |          |         |          |            |            |           |
| Transparence: 14 m|               |           |          |         |          |            |            |           |
| 0                 | 17.70         | 35.79     | 25.97    | 3.45    | 63.8     | 8.60       | 1.5        |           |
| 10                | 17.15         | 35.76     | 26.08    | 3.47    | 63.4     | 8.60       | 1.5        |           |
| 20                | 15.75         | 35.60     | 26.28    | 3.13    | 55.6     | 8.60       | 1.5        |           |
| 30                | 14.90         | 35.50     | 26.39    | 1.96    | 34.2     | 8.60       | 1.5        |           |

| Station 15         |               |           |          |         |          |            |            |           |
| Date: 9.2.82      |               |           |          |         |          |            |            |           |
| Heure: 17h 40     |               |           |          |         |          |            |            |           |
| Fond: 71 m        |               |           |          |         |          |            |            |           |
| Transparence: 10 m|               |           |          |         |          |            |            |           |
| 0                 | 18.60         | 35.77     | 25.73    | 3.91    | 73.7     | 6.10       | 0.3        |           |
| 10                | 17.70         | 35.60     | 25.82    | 3.35    | 62.0     | 6.10       | 0.3        |           |
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Heure : 16 h
Fond : 200 m
Transparence : 16 m
SORTIE CAPRICORNE ECHOSAR 4B

du 26 février au 2 mars 1982
Figure 2.- Position des stations hydrologiques
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| Heure : 8h 45 |  0    |       | 35.43 | 7.43  | 7.4   | 1.04| 0.72   |         |         |
| Fond : 32 m  |       |     |     |       |       |     |        |         |         |         |
| Transp. :  |  10   |       | 35.42 | 3.89  | 3.89  | 0.72| 0.49   |         |         |
|            |  20   |       | 35.43 | 2.65  | 2.65  | 0.47| 0.06   |         |         |
|            |  30   |       | 35.42 | 1.59  | 1.59  | 0.03| 0.03   |         |         |

| Station 20 |       |     |     |       |       |     |        |         |         |
| Date : 28.2.82 |       |     |     |       |       |     |        |         |         |
| Heure : 11 h |  0    | 16.80 | 35.55 | 26.00 | 3.51  | 63.8| 2.00   | 13.3    | 0.98    | 0.71    |
| Fond : 88 m  |       |     |     |       |       |     |        |         |         |         |
| Transp. : 13 m |  10   | 16.60 | 35.55 | 26.05 | 3.16  | 57.2| 2.37   | 1.16    | 0.49    |         |
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|            |  50   | 15.70 | 35.47 | 26.20 | 1.94  | 34.5| 3.69   | 0.13    | 0.00    |         |
|            |  75   | 15.00 | 35.44 | 26.33 | 1.70  | 29.8| 4.02   | 0.06    | 0.03    |         |

| Station 21 |       |     |     |       |       |     |        |         |         |
| Date : 28.2.82 |       |     |     |       |       |     |        |         |         |
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| Fond : 34 m  |       |     |     |       |       |     |        |         |         |         |
| Transp. : 5 m |  10   | 15.30 | 35.42 | 26.25 | 3.53  | 62.1| 2.16   |         |         |         |
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| Fond : 32 m  |       |     |     |       |       |     |        |         |         |         |
| Transp. : 7 m |  10   | 15.00 | 35.39 | 26.29 | 3.24  | 56.6| 2.48   | 6.90    | 4.80    |         |
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|            |  25   | 14.50 | 35.41 | 26.41 | 2.11  | 36.5| 3.67   | 4.58    | 2.89    |         |

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| Fond : 8 m   |       |     |     |       |       |     |        |         |         |         |
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**Heure : 17h 14**
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SORTIE LAURENT AMARO 82/06
du 26 mars au 2 avril 1982

Positions des stations : voir figure 1 et tableau 1
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**Heure:** 20 h 30  
**Fond:** 21 m  
**Transp.:**

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**Heure:** 8 h  
**Fond:** 10 m  
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SORTIE LAURENT AMARO 82/09

du 3 au 7 mai 1982

Positions des stations : voir figure 1 et tableau 1
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Heure : 12 h  
Fond : 10 m  
 Transp. : 4 m

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Transp. : 7 m

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Transp. : 7 m

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Transp. :

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Transp.: 4 m

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Transp.: 5 m

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Transp.: 6 m

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**Transp.**: 8 m

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**Transp.**: 6 m

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**Transp.**: 6 m

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**Heure**: 11 h  
**Fond**: 200 m  
**Transp.**: 7 m

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**Fond**: 200 m  
**Transp.**: 7 m

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**Heure**: 14 h  
**Fond**: 82 m  
**Transp.**: 5 m

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Transp. : 8 m

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Fond : 28 m  
Transp. : 6 m

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Transp. : |

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**Fond**: 10 m  
**Transp.**: 

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**Fond**: 21 m  
**Transp.**: 6 m 

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**Fond**: 45 m  
**Transp.**: 5 m 

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Transp. : 6 m

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### Station 35

Date : 6.5.82  
Heure : 15 h  
Fond : 200 m  
Transp. : 8 m

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Fond : 200 m  
Transp. : 8 m

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Fond : 45 m  
Transp. : 6 m

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<th>Chlₜ μg/l</th>
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Date : 6.5.82  
Heure : 21 h  
Fond : 27 m  
Transp. :

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### Station 39

Date : 7.5.82  
Heure : 8 h  
Fond : 10 m  
Transp. : 4 m

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Date : 7.5.82  
Heure : 10 h  
Fond : 10 m  
Transp. : 5 m

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Heure : 12 h  
Fond : 26 m  
Transp. : 12 m

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Date : 7.5.82  
Heure : 14 h  
Fond : 46 m  
Transp. : 13 m

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**Date:** 7.5.82  
**Heure:** 16 h  
**Fond:** 200 m  
**Transp.:** 8 m

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positions des stations : voir figure 1 et tableau 1
### Station 1

Date : 1.6.82  
Heure : 12 h  
Fond : 10 m  
Transp. : 4 m

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### Station 3

Date : 1.6.82  
Heure : 13 h  
Fond : 42 m  
Transp. : 7 m

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Transp.: 9 m

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Transp.: 6 m

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Date: 1.6.82  
Heure: 21 h  
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Transp.: 

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**Heure:** 8 h  
**Fond:** 10 m  
**Transp.:** 6 m

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**Fond:** 27 m  
**Transp.:** 5 m

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**Heure:** 12 h  
**Fond:** 63 m  
**Transp.:** 9 m

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Transp. : 14 m

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Transp. : 11 m

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Transp.:  

Date: 2.6.82  
Heure: 21 h  
Fond: 10 m  
Transp.:  

Date: 3.6.82  
Heure: 7 h  
Fond: 26 m  
Transp.:  

Date: 3.6.82  
Heure: 7 h  
Fond: 26 m  
Transp.:  
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**Date:** 3.6.82  
**Heure:** 9 h  
**Fond:** 44 m  
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Transp. : 16 m

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**Transp.:**

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**Transp.:** 5 m

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**Heure:** 10 h  
**Fond:** 21 m  
**Transp.:** 6 m

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**Heure**: 12 h  
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**Transp.**: 4 m

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**Transp.**: 17 m

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Station 36

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Transp. : 11 m

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Station 37

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Transp. : 

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Station 38

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Fond : 28 m  
Transp. : 

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Date : 5.6.82  
Heure : 9 h  
Fond : 10 m  
Transp. : 5 m

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Transp. : 5 m

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Transp. : 5 m

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Date : 5.6.82  
Heure : 15 h  
Fond : 46 m  
Transp. : 5,5 m

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SORTIE LAURENT AMARO 82/16
du 31 août au 3 septembre 1982
Positions des stations : voir figure 1 et tableau 1
## Station 1

| Date : | 31.8.82 |
| Heure : | 10 h |
| Fond : | 10 m |
| Transp. : | |

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<th>PO₄</th>
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## Station 3

| Date : | 1.9.82 |
| Heure : | 10 h |
| Fond : | 42 m |
| Transp. : | 15 m |

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| 0     | 28.80 | 35.51 | 22.73 | 5.10 | 117.0 | -0.74 |     | 0.06  | 0.0   |
| 10    | 28.20 | 35.56 | 22.57 | 5.07 | 113.9 | -0.62 |     |       |       |
| 20    | 28.80 | 35.56 | 22.57 | 5.05 | 114.8 | -0.65 |     |       |       |
| 30    | 28.50 | 35.57 | 22.68 | 4.94 | 111.7 | -0.52 |     |       |       |
| 40    | 24.10 | 35.65 | 24.12 | 3.10 | 64.7  | 1.69  |     |       |       |

## Station 4

| Date : | 1.9.82 |
| Heure : | 11 h |
| Fond : | 90 m |
| Transp. : | 18 m |

|       |    |     |       |    |     |     |     |       |       |
| 0     | 28.65 | 35.45 | 22.54 | 4.80 | 108.6 | -0.38 |     | 0.06  | 0.02  |
| 10    | 28.55 | 35.54 | 22.64 | 5.56 | 125.8 | -1.14 |     |       |       |
| 20    | 28.55 | 35.58 | 22.67 | 4.79 | 108.3 | -0.37 |     |       |       |
| 30    | 28.40 | 35.68 | 22.80 | 5.16 | 116.5 | -0.73 |     |       |       |
| 50    | 18.35 | 35.68 | 25.72 | 4.86 | 91.0  | 0.48  |     |       |       |
| 80    | 15.60 | 35.65 | 26.36 | 2.57 | 45.5  | 3.08  |     |       |       |

## Station 5

| Date : | 1.9.82 |
| Heure : | 12 h |
| Fond : | 85 m |
| Transp. : | 14 m |

|       |    |     |       |    |     |     |     |       |       |
| 0     | 35.58 | 4.99 |     |     |     |     |     | 0.06  | 0.2   |
| 10    | 35.53 | 5.49 |     |     |     |     |     | 0.06  | 0.3   |
| 20    | 35.57 | 5.72 |     |     |     |     |     | 0.06  | 0.7   |
| 30    | 35.64 | 4.55 |     |     |     |     |     | 0.07  | 0.4   |
| 50    | 35.54 | 3.04 |     |     |     |     |     | 0.07  | 0.3   |
| 80    | 35.55 | 2.80 |     |     |     |     |     | 0.08  | 0.0   |
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<th>%</th>
<th>UAO</th>
<th>$NO_3$ μatg/l</th>
<th>$PO_4$ μatg/l</th>
<th>$SiO_3$ μatg/l</th>
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**Transp.:** 14 m

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**Fond:** 10 m  
**Transp.:** 3 m

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### Station 30

**Date**: 3.9.82  
**Heure**: 10h  
**Fond**: 10 m  
**Transp.**: 5 m

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SORTIE LAURENT AMARO 82/19

du 13 - 15 octobre 1982

Positions des stations : voir figure 2 et tableau 2
### Station 1

**Date**: 13.10.82  
**Heure**: 7 h  
**Fond**: 10 m  
**Transparence**: 8 m  

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**Heure**: 8 h  
**Fond**: 42 m  
**Transp.**: 7 m  

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**Heure**: 9 h  
**Fond**: 90 m  
**Transp.**: 12 m  

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**Fond**: 85 m  
**Transp.**: 17 m  

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**Heure:** 12 h 10 m  
**Fond:** 30 m  
**Transp.:** 10 m

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**Heure:** 13 h 10 m  
**Fond:** 10 m  
**Transp.:** 6 m

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**Heure:** 13 h 27 m  
**Fond:** 10 m  
**Transp.:** 5 m

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**Transp.:** 9 m

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**Transp.:** 15 m

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**Transp.:** 17 m

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**Heure:** 19 h  
**Fond:** 75 m  
**Transp.:** 13 m

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**Heure:** 18 h  
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**Transp.:** 12 m

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**Transp.:**

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**Heure:** 7h  
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**Transp.:** 8 m

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**Heure:** 8 h  
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**Transp.:** 12 m

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