

FIGURES

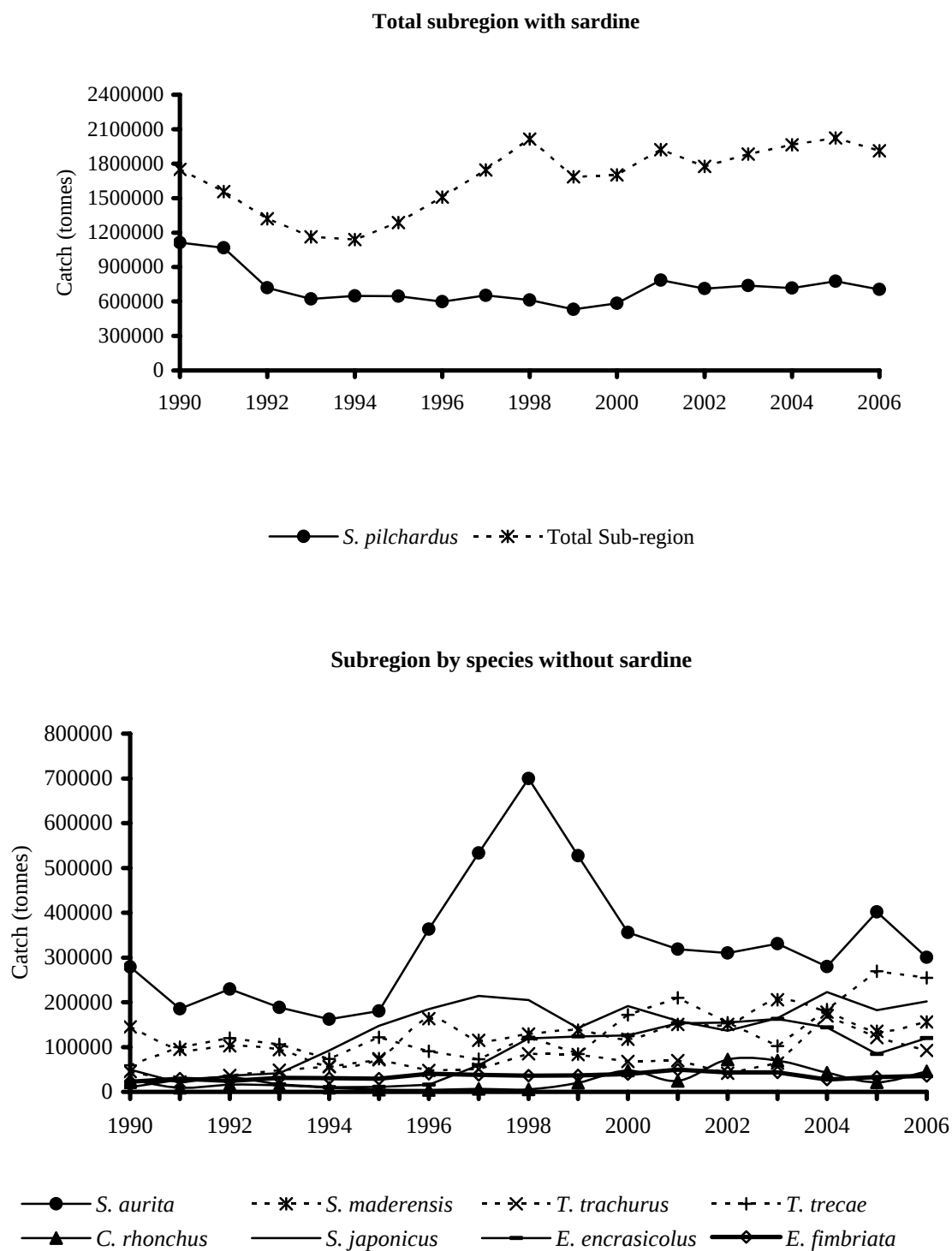


Figure 1.6.1a: Catches (1990–2006) in the sub-region by species and year (weight in tonnes)/
Captures totales (1990-2006) dans la sous-région par espèce et par année
(poids en tonnes)

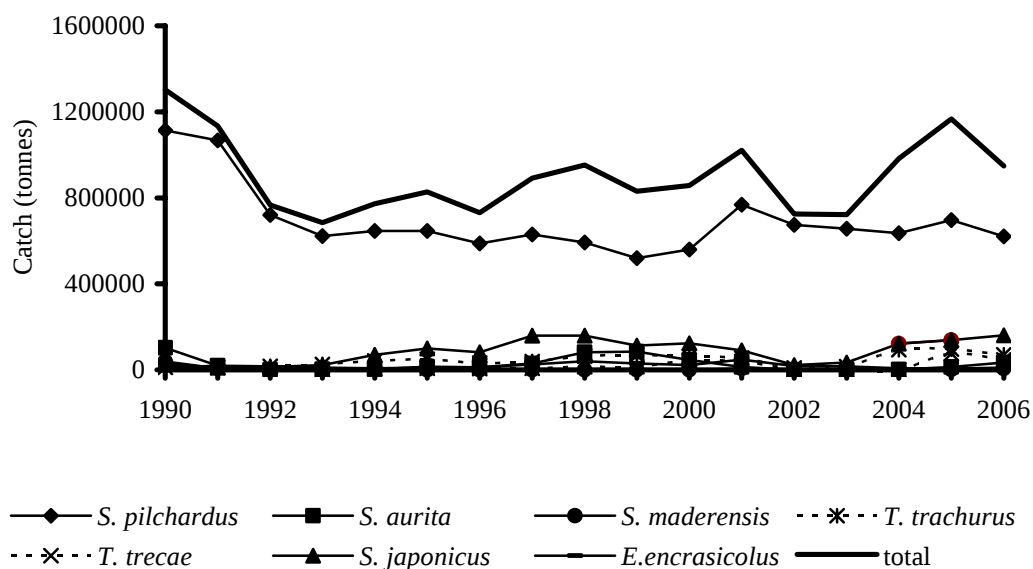


Figure 1.6.1b: Catches (1990–2006) in Morocco by species and year (weight in tonnes)/
Captures (1990-2006) au Maroc par espèce et par année (poids en tonnes)

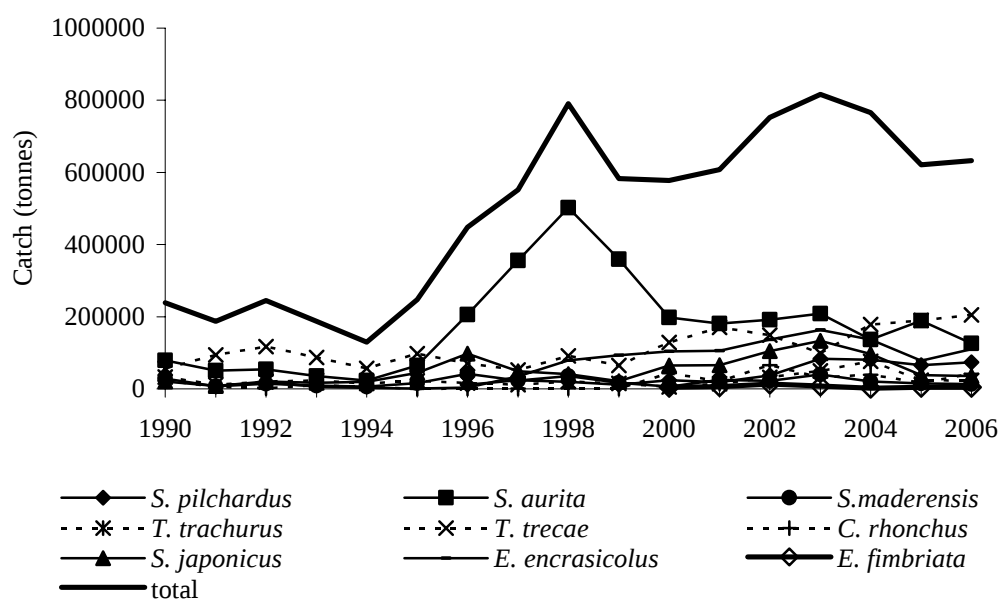


Figure 1.6.1c: Catches (1990–2006) in Mauritania by species and year (weight in tonnes)/
Captures (1990-2006) en Mauritanie par espèce et par année (poids en tonnes)

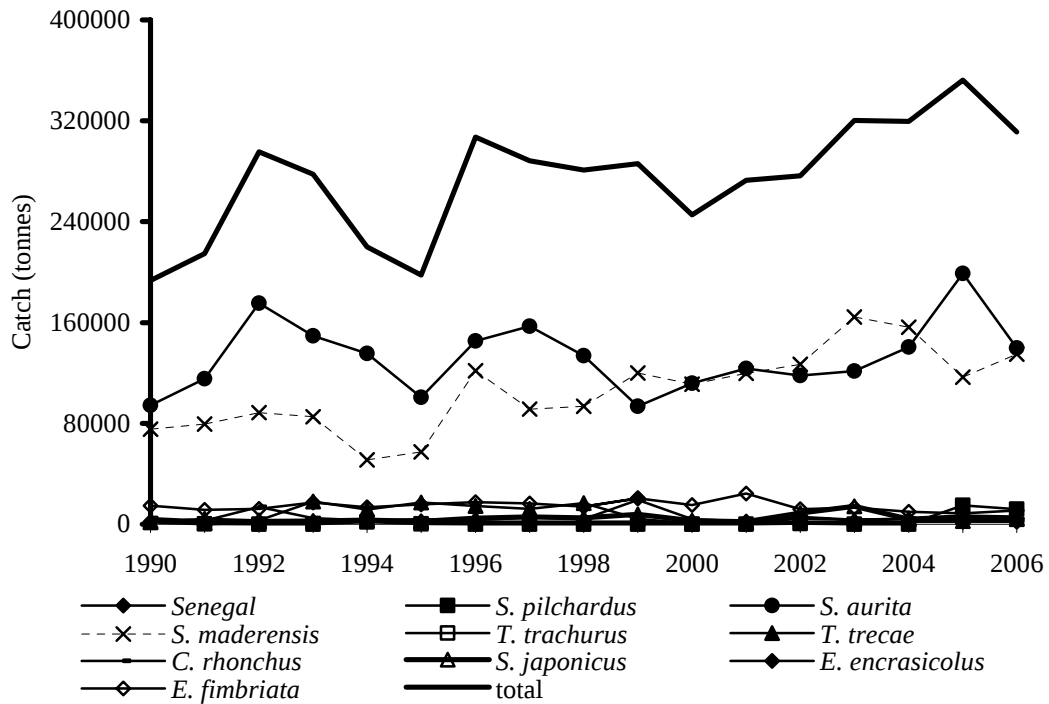


Figure 1.6.1d: Catches (1990–2006) in Senegal by species and year (weight in tonnes)/
Captures (1990-2006) au Sénégal par espèce et par année (poids en tonnes)

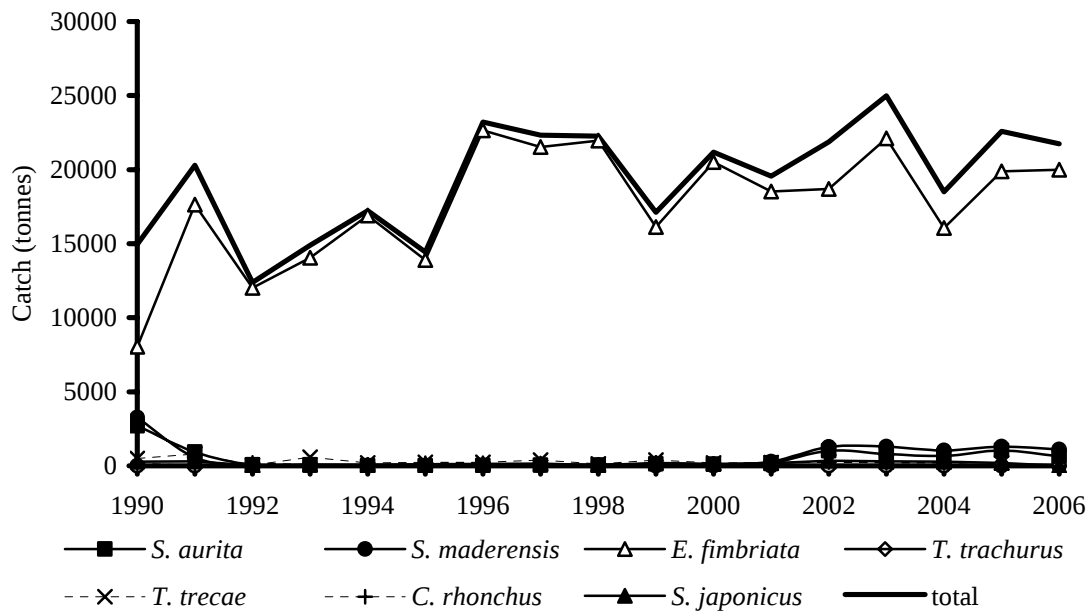


Figure 1.6.1e: Catches (1990–2006) in The Gambia by species and year (weight in tonnes)/
Captures (1990-2006) en Gambie par espèce et par année (poids en tonnes)

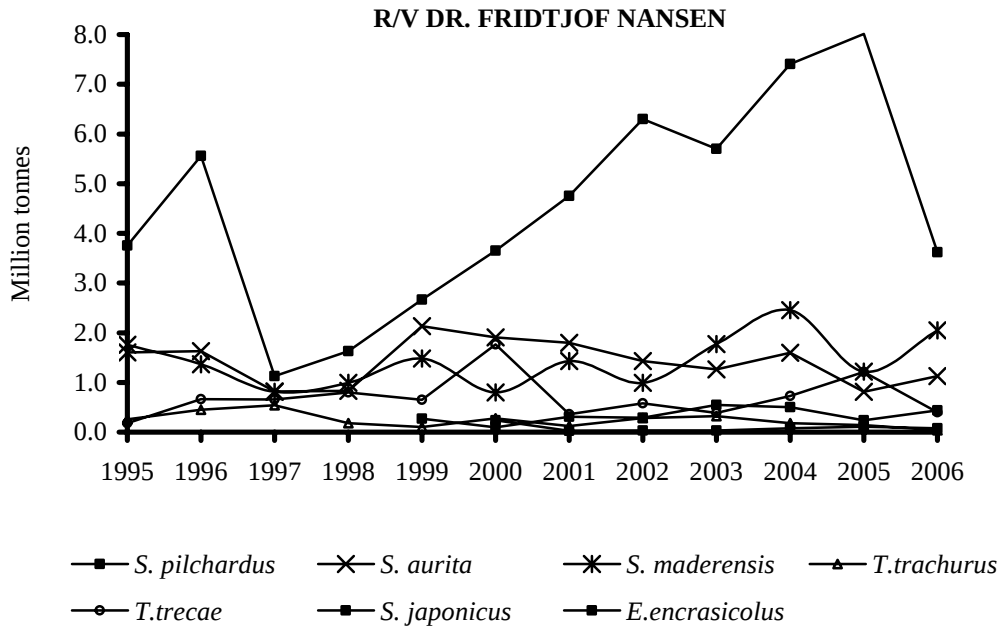


Figure 1.7.1a: Evolution of biomass in million tonnes estimated by R/V DR. FRIDTJOF NANSEN for the period 1995–2006/Évolution de la biomasse en millions de tonnes estimée pendant la période 1995-2006 par le N/R DR FRIDTJOF NANSEN

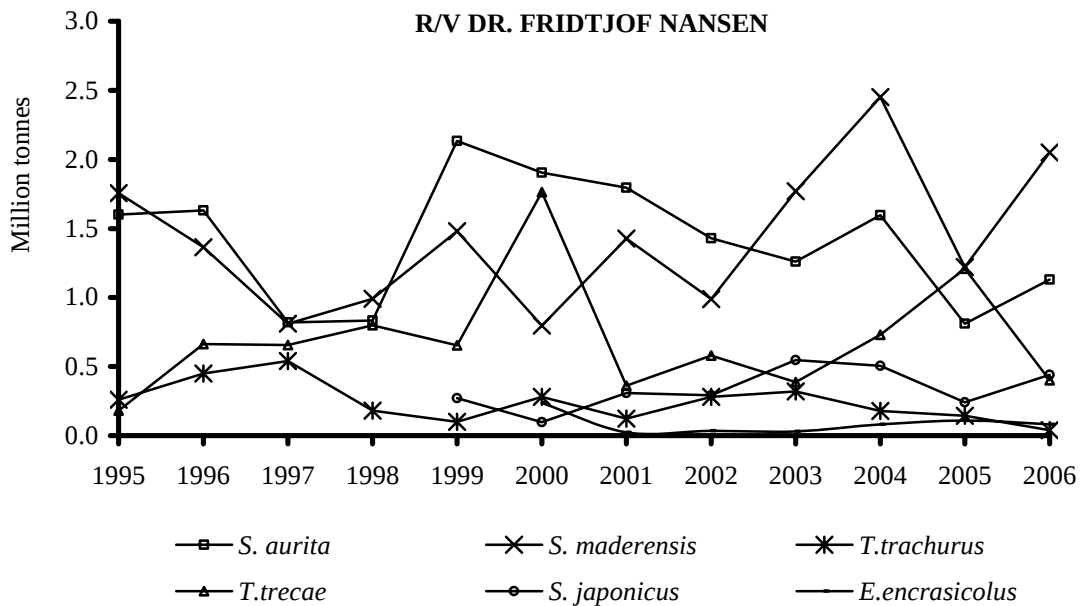


Figure 1.7.1b: Evolution of biomass of small pelagics without sardine in million tonnes estimated by R/V DR. FRIDTJOF NANSEN for the period 1995–2006/Évolution de la biomasse de petits pélagiques estimée pendant la période 1995-2006 par le N/R DR. FRIDTJOF NANSEN (sans la sardine et en millions de tonnes)

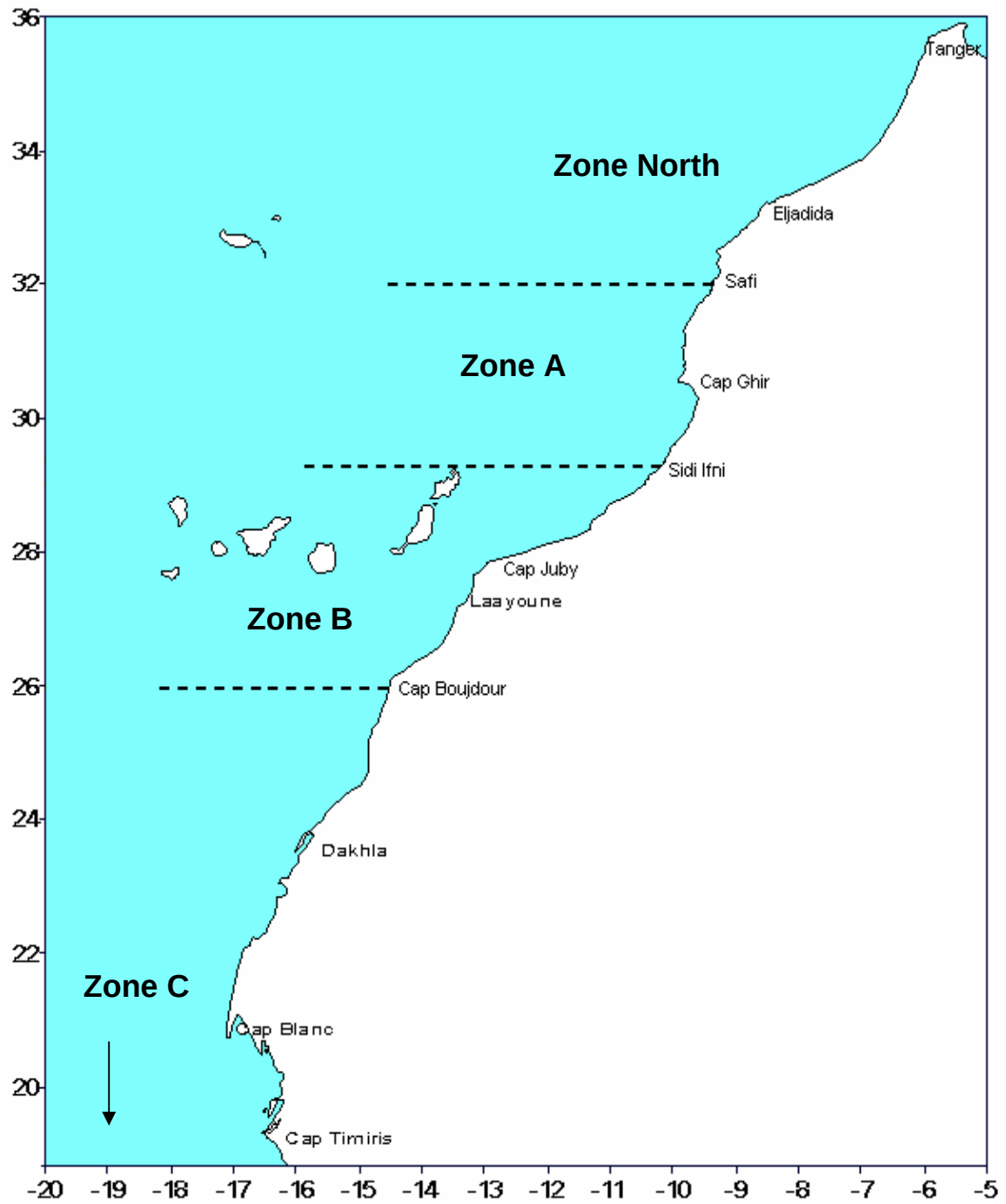


Figure 2.1.1: Stock units and sardine fisheries/Unités de stock et pêcheries de sardine

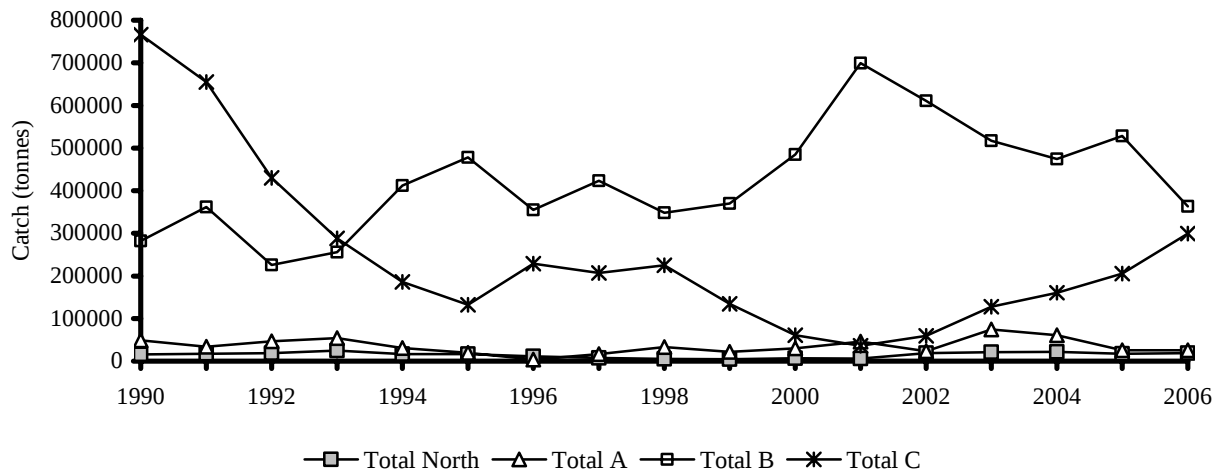
Sardina pilchardus

Figure 2.2.1a: Catches (1990–2006) of *Sardina pilchardus* by zone and year (weight in tonnes)/
Captures (1990–2006) de *Sardina pilchardus* par zone et année (poids en tonnes)

Sardina pilchardus
CPUE Zone A+B

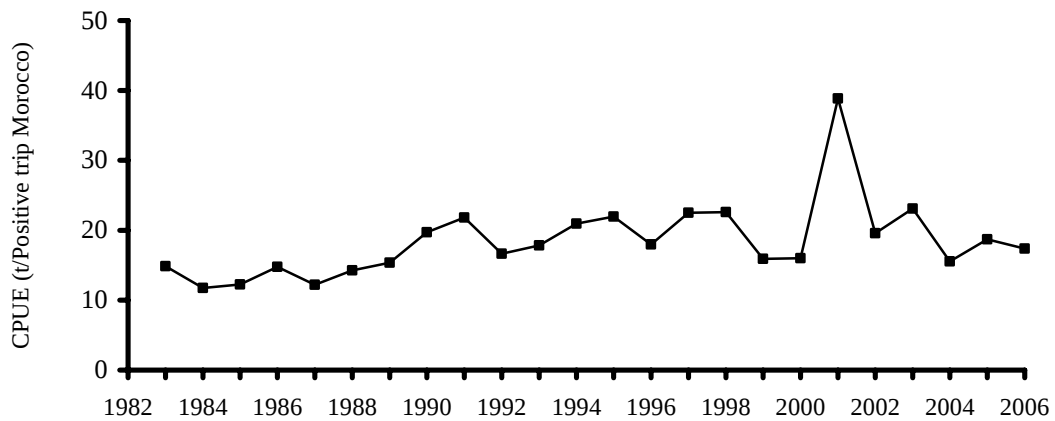


Figure 2.3.1a: CPUE of *Sardina pilchardus* (1983–2006) in zone A+B (tonnes/positive trips)/CPUE de *Sardina pilchardus* (1983–2006) dans les zones A+B (tonnes/sorties positives)

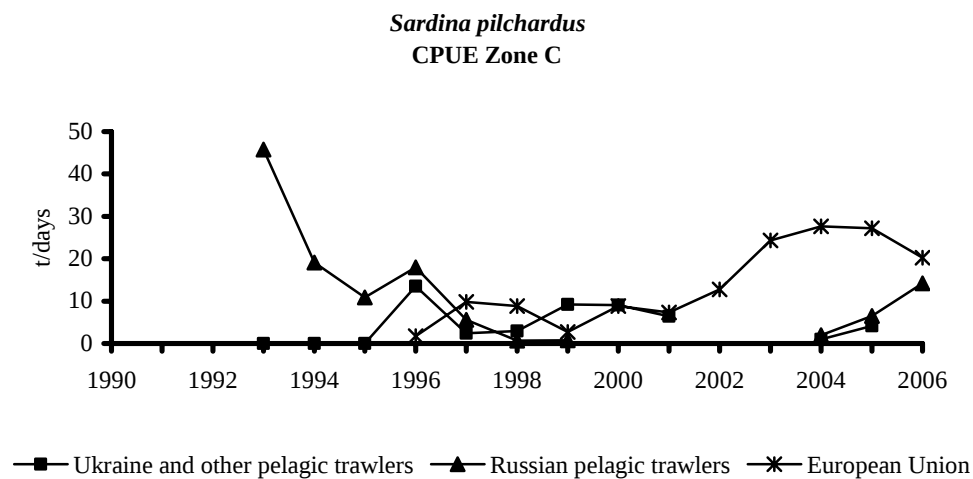


Figure 2.3.1b: CPUE of *Sardina pilchardus* (1992–2006) by fishery in zone C (tonnes/fishing days)/CPUE de *Sardina pilchardus* (1992–2006) par pêche dans la zone C (tonnes/jours de pêche)

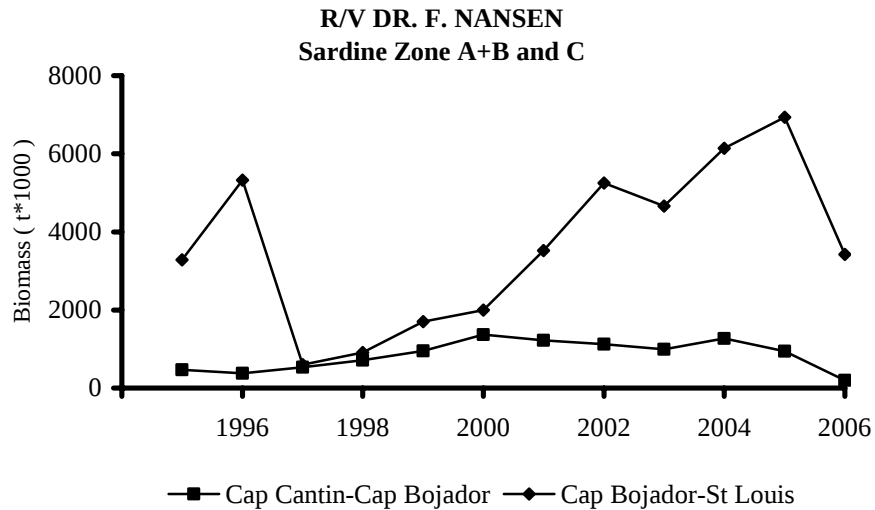


Figure 2.3.2a: Biomass estimates of sardine (1986–2006) for zones A+B and C from R/V DR. FRIDTJOF NANSEN (in thousand tonnes)/Estimations de la biomasse de sardine (1986-2006) pour les zones A+B et C du N/R DR. FRIDTJOF NANSEN (en milliers de tonnes)

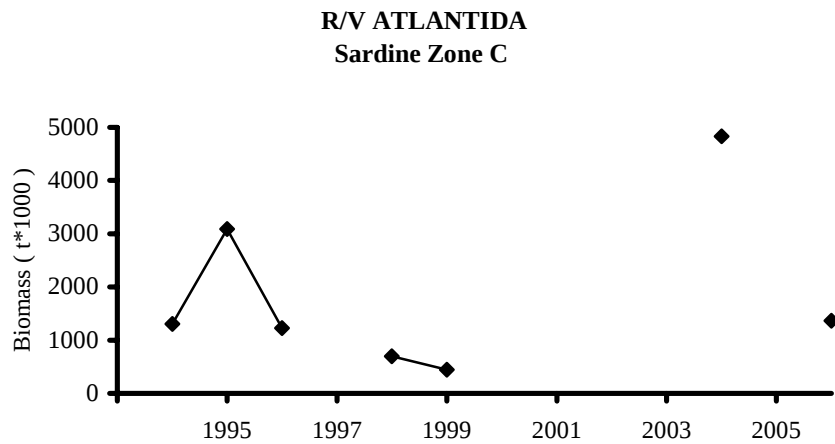
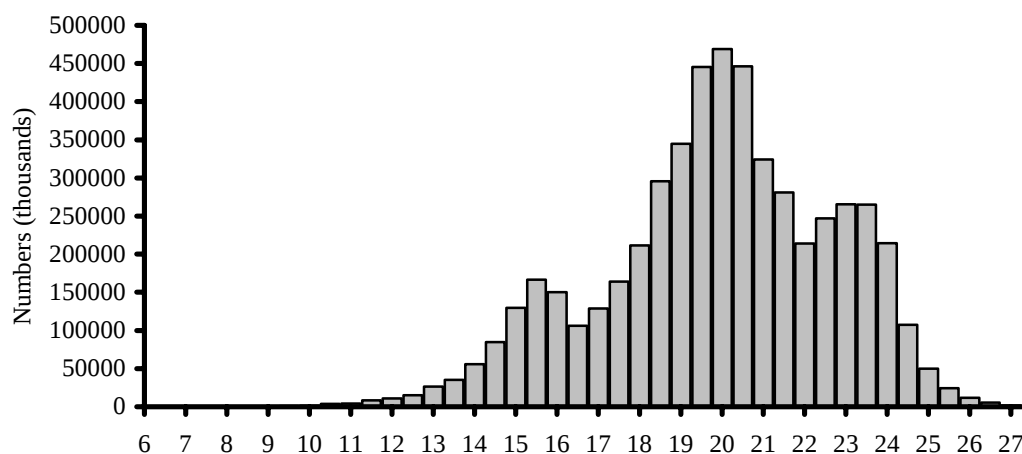
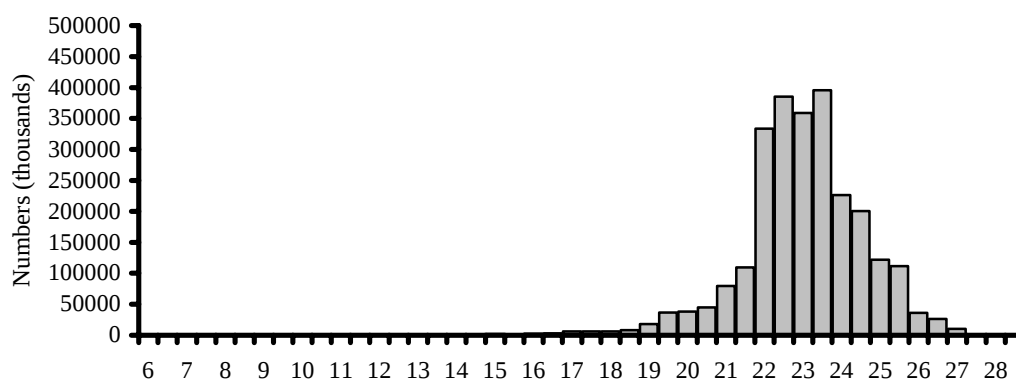
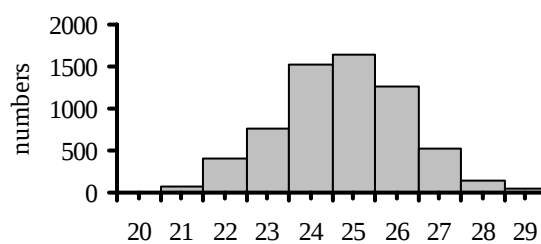


Figure 2.3.2b: Biomass estimates of sardine (1994-1996, 1998-1999, 2004-2006) for zone C from R/V ATLANTIDA (in thousand tonnes)/Estimations de la biomasse de sardine (1994-1996, 1998-1999, 2004-2006) pour la zone C du N/R ATLANTIDA (en milliers de tonnes)

Sardine - Zone A+B 2006**Figure 2.5.1a:** Length composition of catches for 2006 in zone A+B/Composition par taille des captures en 2006 pour la zone A+B**Sardine- Zone C 2006****Figure 2.5.1b:** Length composition of catches for 2006 in zone C/Composition par taille des captures en 2006 pour la zone C**Sardine
Senegal 2006****Figure 2.5.1c:** Length composition of catches for 2006 in Senegal/Composition par taille des captures en 2006 pour le Sénégal

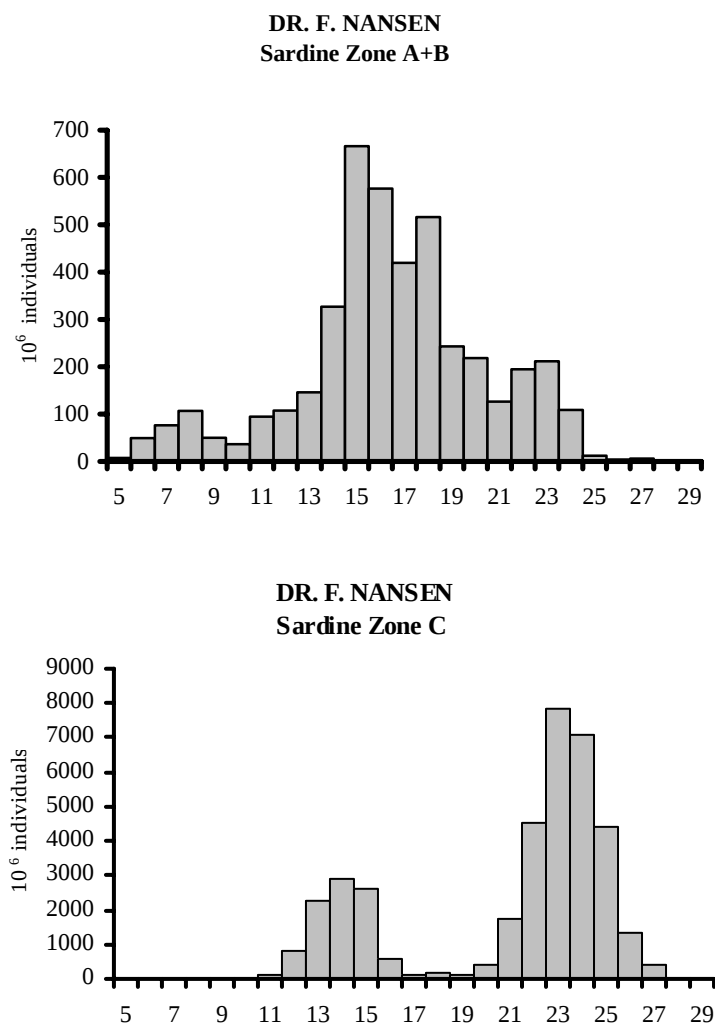
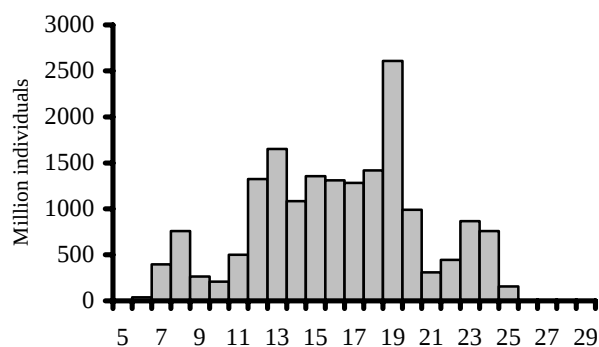
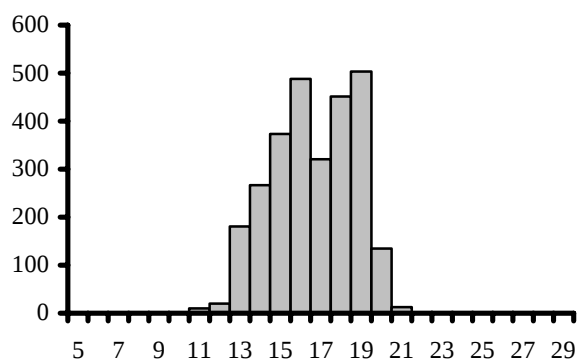


Figure 2.5.2a: Length composition of sardine (Nov.–Dec. 2006)
R/V DR. FRIDTJOF NANSEN/Composition par taille des
sardines (nov.-déc. 2006) N/R DR. FRIDTJOF NANSEN

R/V AL AMIR MOULAY ABDELLAH
Zone A+B Jun-Jul 2006



R/V AL AMIR MOULAY ABDELLAH
Zone A+B Décembre 2006



R/V AL AMIR MOULAY ABDELLAH
Zone C Novembre 2006

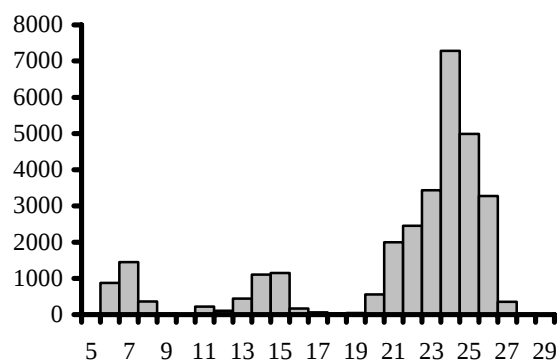


Figure 2.5.2b: Length composition of sardine (2006)
 R/V AL AMIR MOULAY ABDELLAH
 Composition par taille des sardines (2006)
 N/R AL AMIR MOULAY ABDELLAH

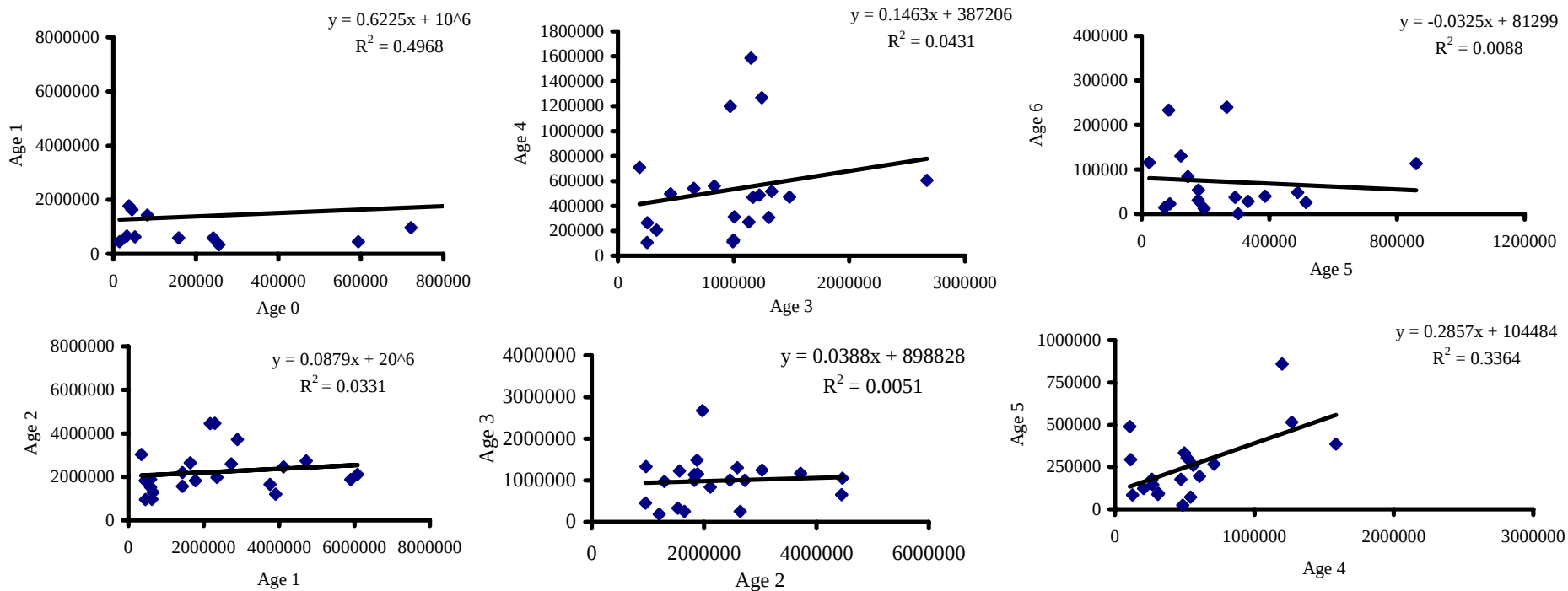


Figure 2.6.1: Exploratory analyses of the data for sardine in zone A+B (2006)/Analyses exploratoires des données pour la sardine dans la zone A+B (2006)

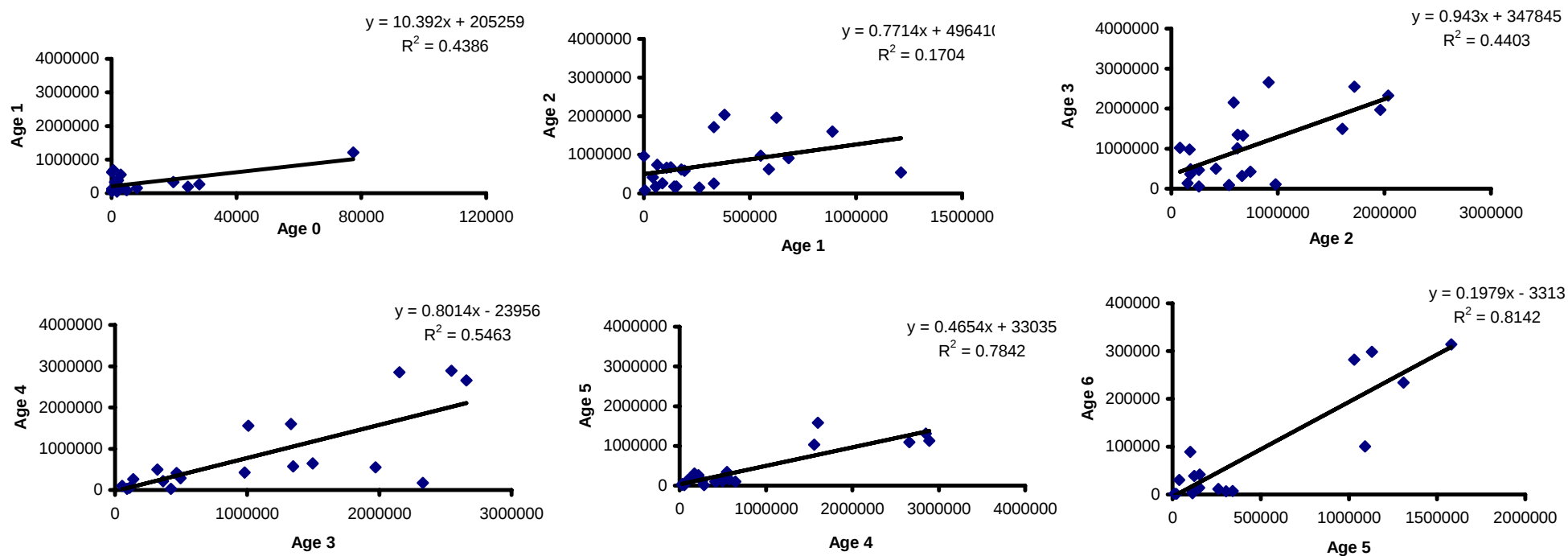


Figure 2.6.2: Exploratory analyses of the data for sardine in zone C/Analyses exploratoires des données pour la sardine dans la zone C

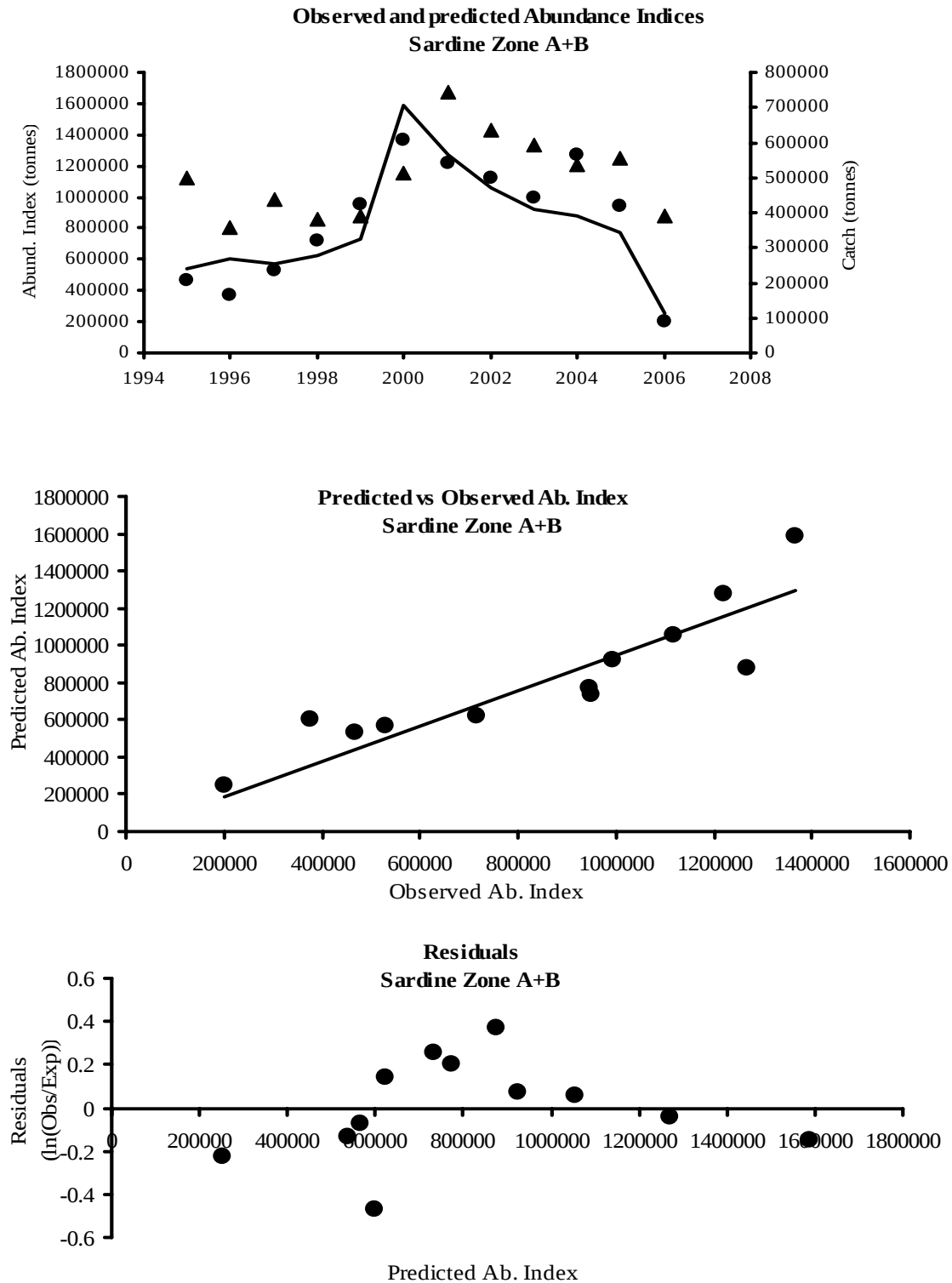


Figure 2.6.3a: Observed and predicted abundance indices for Sardine zone A+B using estimates from R/V DR. FRIDTJOF NANSEN (1995–2006) and diagnostics of the model fit/
 Indices d'abondance observés et prévus pour la sardine dans la zone A+B à partir des estimations du N/R DR. FRIDTJOF NANSEN (1995-2006) et des diagnostics du modèle

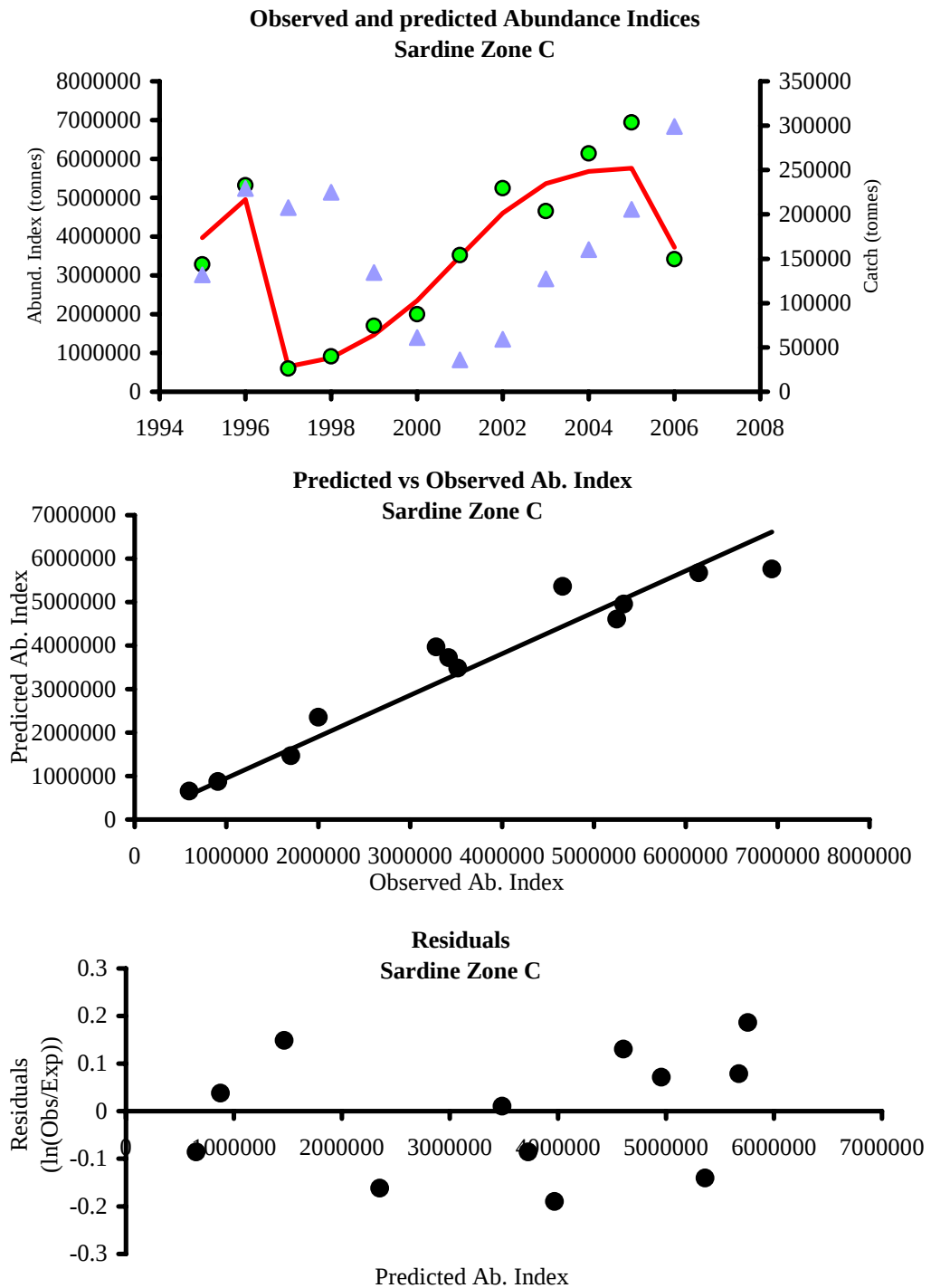
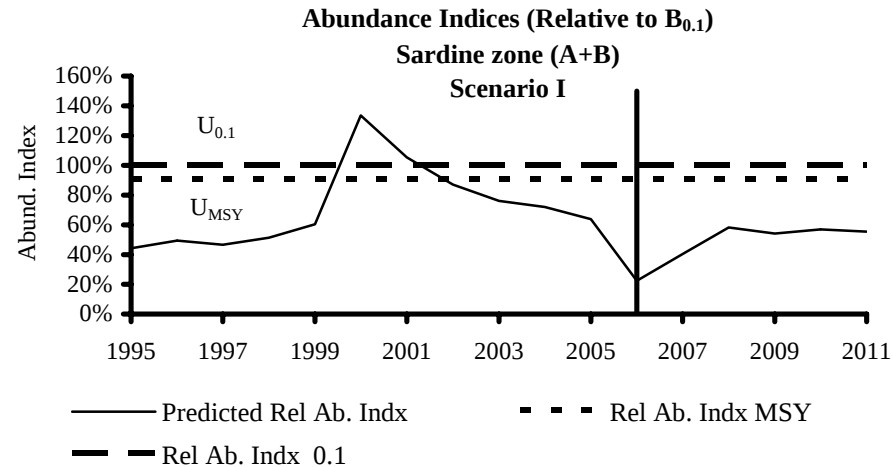
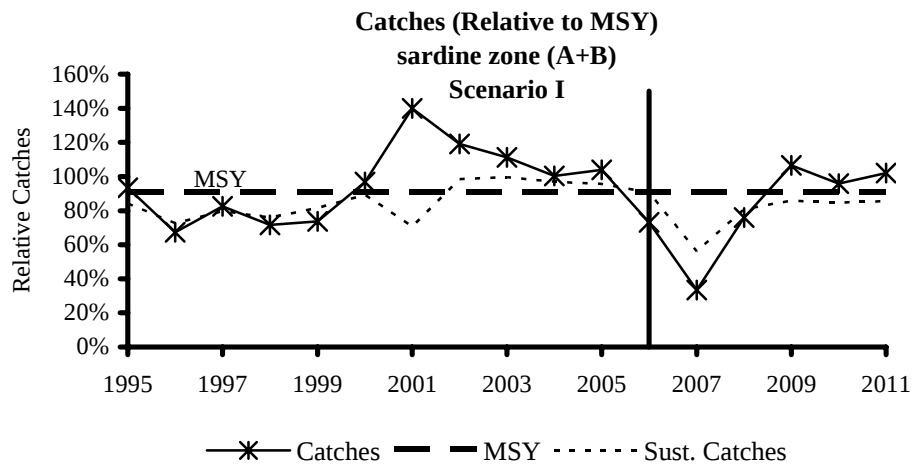
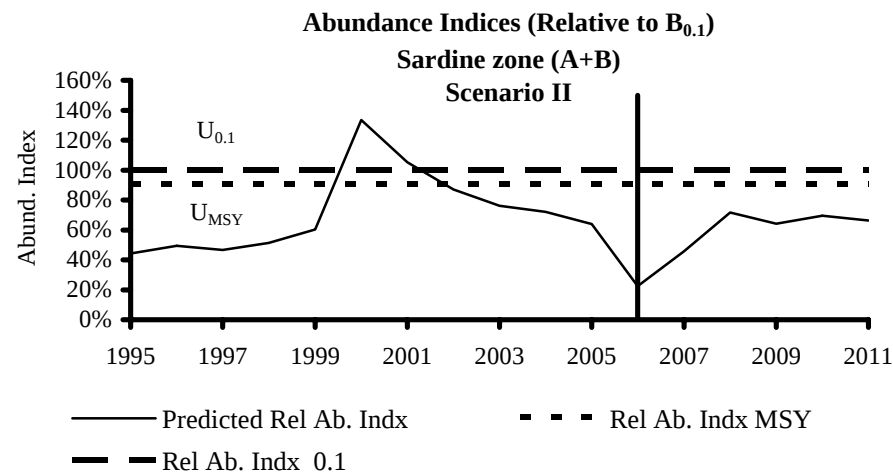
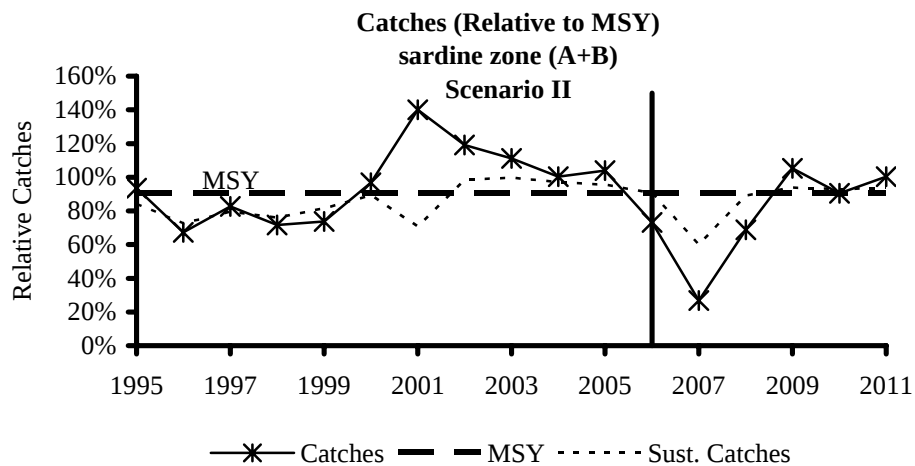


Figure 2.6.3b: Observed and predicted abundance indices for Sardine zone C using estimates from R/V DR. FRIDTJOF NANSEN (1995–2006) and diagnostics of the model fit/Indices d’abondance observés et prévus pour la sardine en zone C en utilisant les estimations du N/R DR. FRIDTJOF NANSEN (1995-2006) et des diagnostics du modèle



Figures 2.7.1a: Predicted trends in catches and abundance of sardine in zone A+B – Scenario I (*status quo*)/Prédictions des captures et de l’abondance de sardines dans la zone A+B – Scénario I (*status quo*)



Figures 2.7.1b: Predicted trends in catches and abundance of sardine in zone A+B – Scenario II (20% increase in effort)/Prédictions des captures et de l’abondance de sardines dans la zone A+B – Scénario II (20% d’accroissement de l’effort)

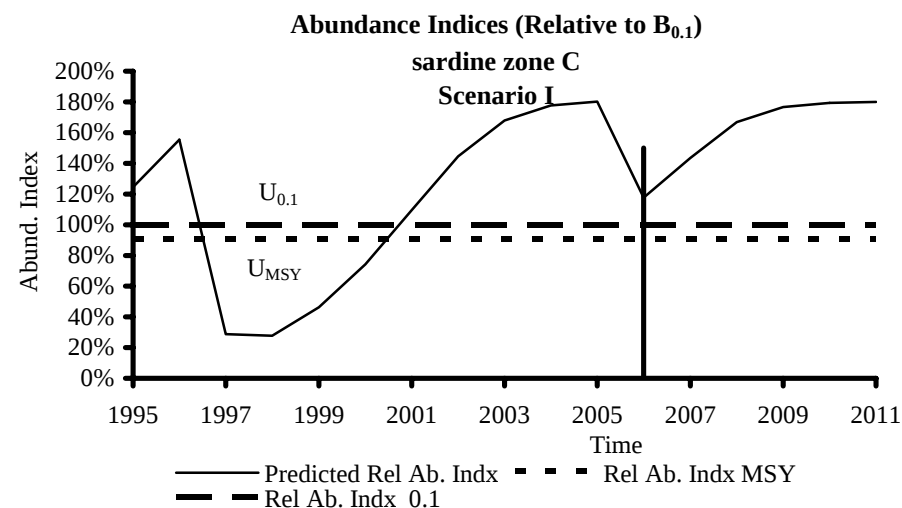
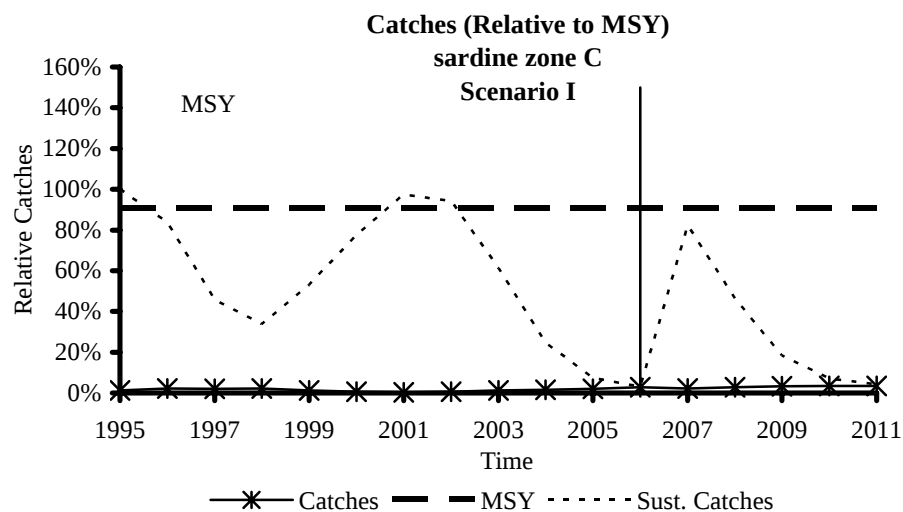


Figure 2.7.2a: Predicted catches and abundance of sardine in zone C – Scenario I (*status quo*)/Prédictions des captures et de l'abondance de sardines dans la zone C – Scénario I (*status quo*)

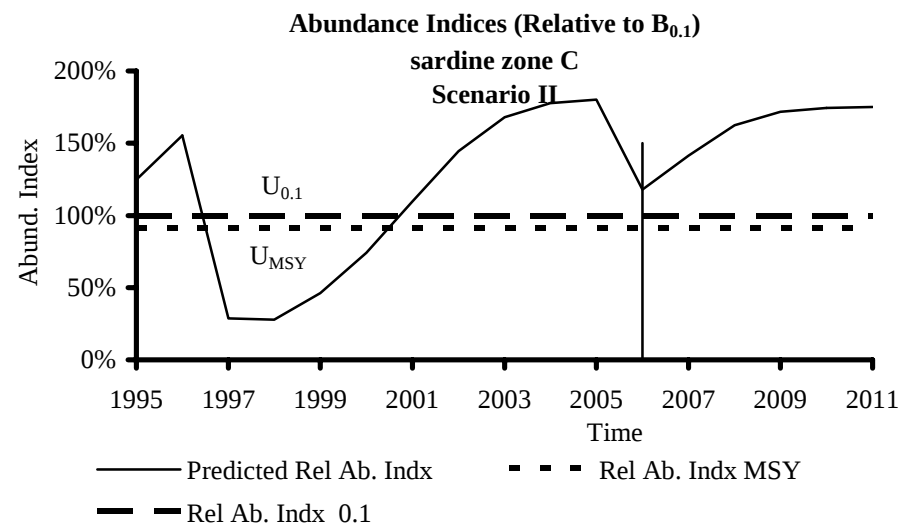
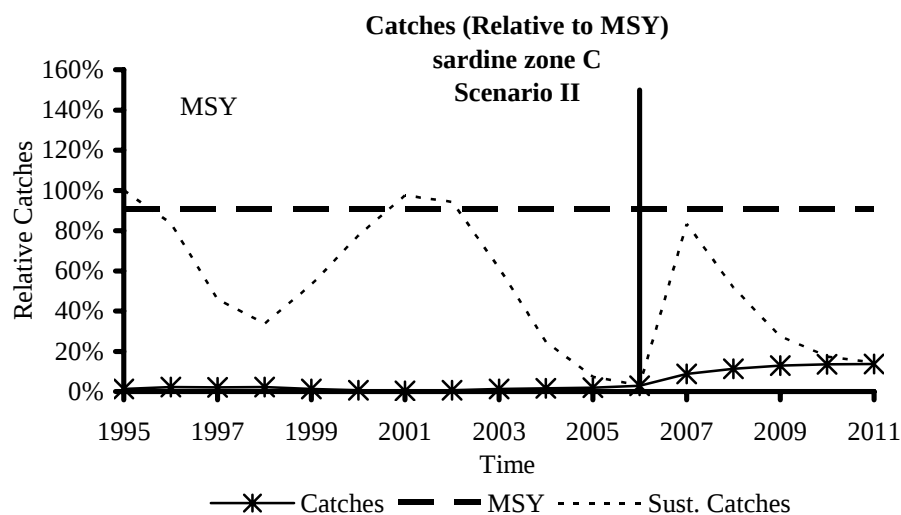


Figure 2.7.2b: Predicted catches and abundance of sardine in zone C – Scenario II (400% increase in effort)/Prédictions des captures et de l'abondance de sardines dans la zone C – Scénario II (400% d'accroissement de l'effort)

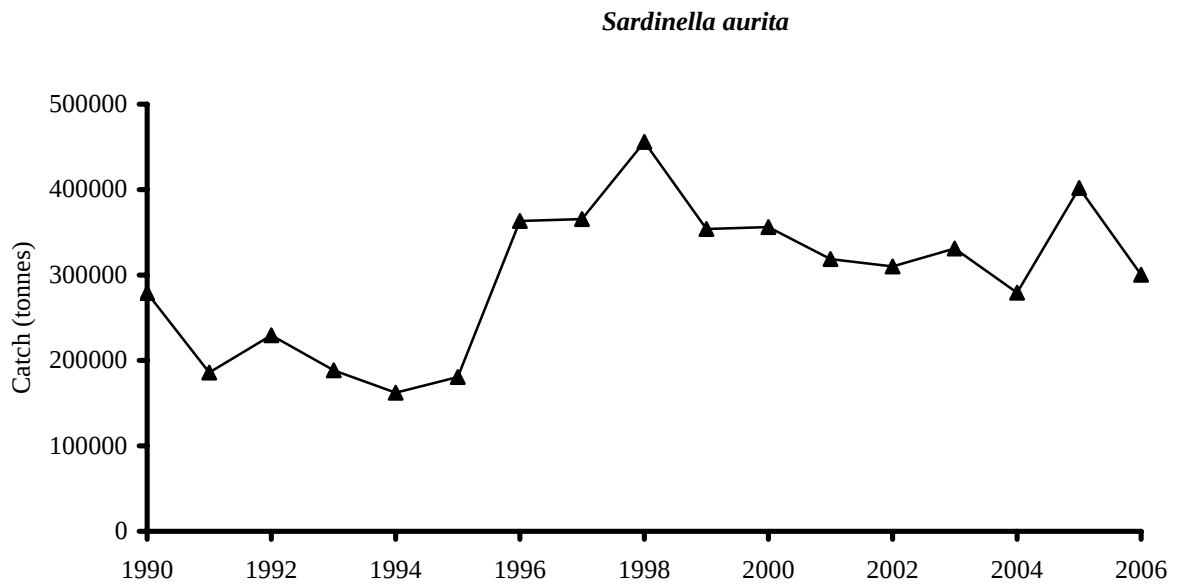


Figure 3.2.1a: Total catch of *Sardinella aurita* (1990–2006) in the whole sub-region/Captures totales de *Sardinella aurita* (1990-2006) dans toute la sous-région

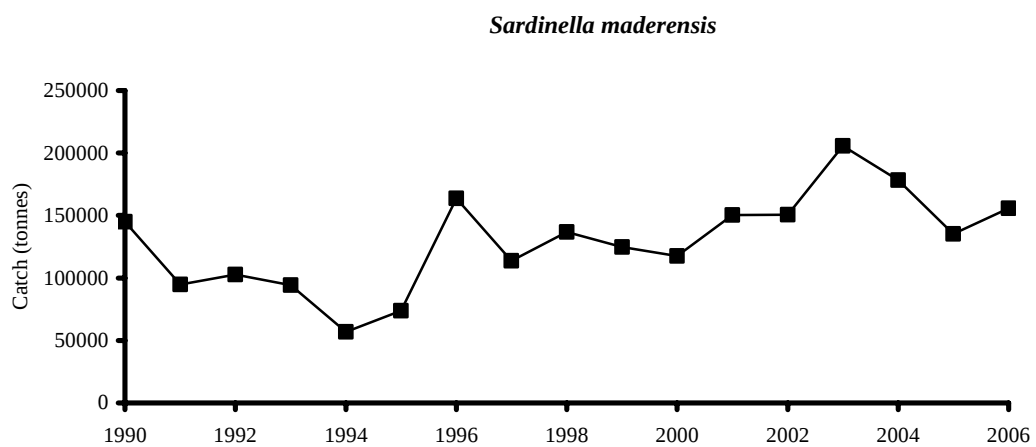


Figure 3.2.1b: Total catch of *Sardinella maderensis* (1990–2006) in the whole sub-region/Captures totales de *Sardinella maderensis* (1990-2006) dans toute la sous-région

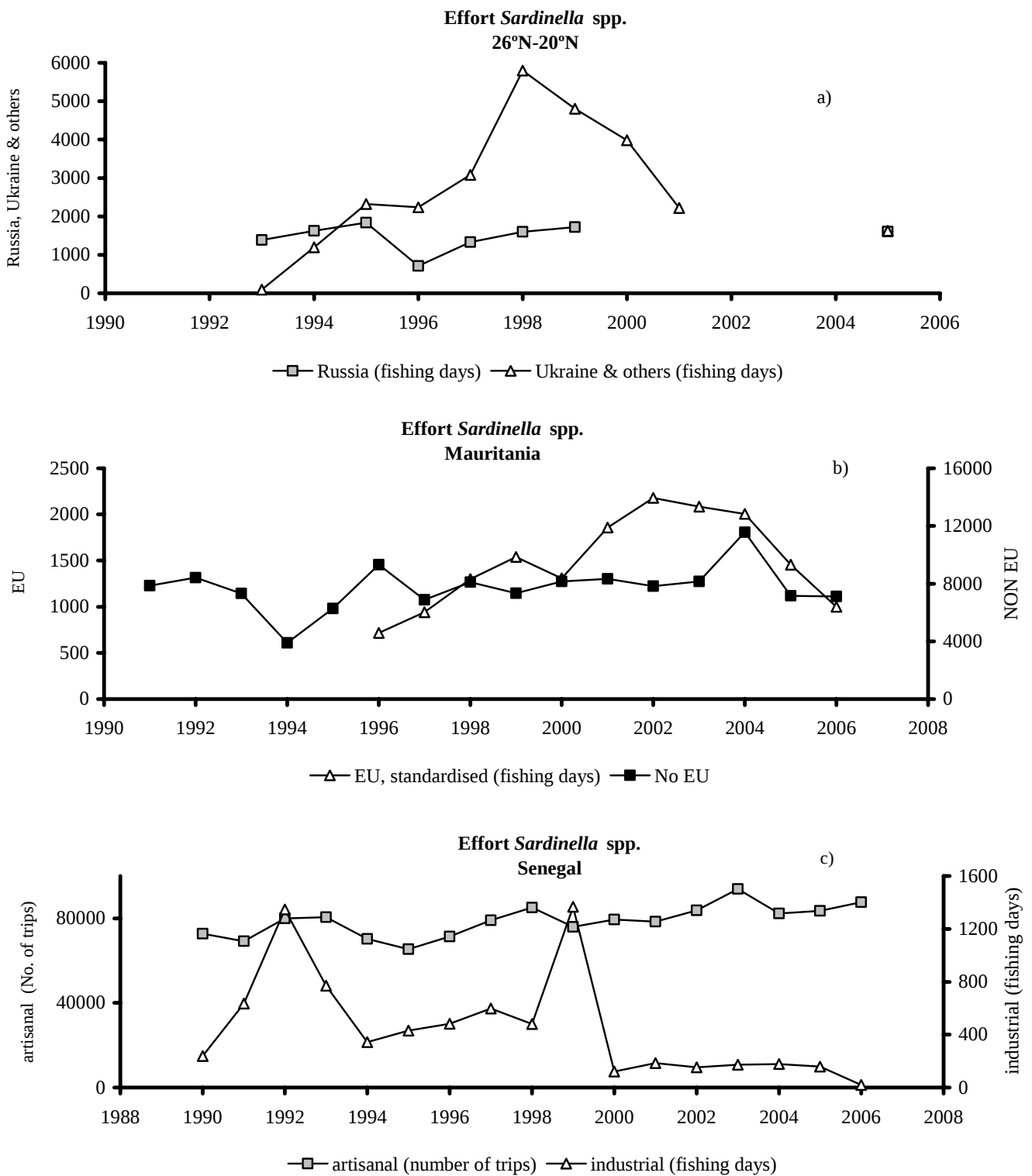


Figure 3.2.2a,b,c: Effort of *Sardinella* spp. (1990–2006) by fleet and year (a) Zone 26°N–20°N, (b) Mauritania and (c) Senegal (effort in fishing days or number of trips)/Effort de *Sardinella* spp. (1990–2006) par flottille et par année (a) zone 26°N–20°N, (b) en Mauritanie et (c) au Sénégal (effort en jours de pêche ou en nombre de sorties)

**CPUE *Sardinella* spp.
Mauritania**

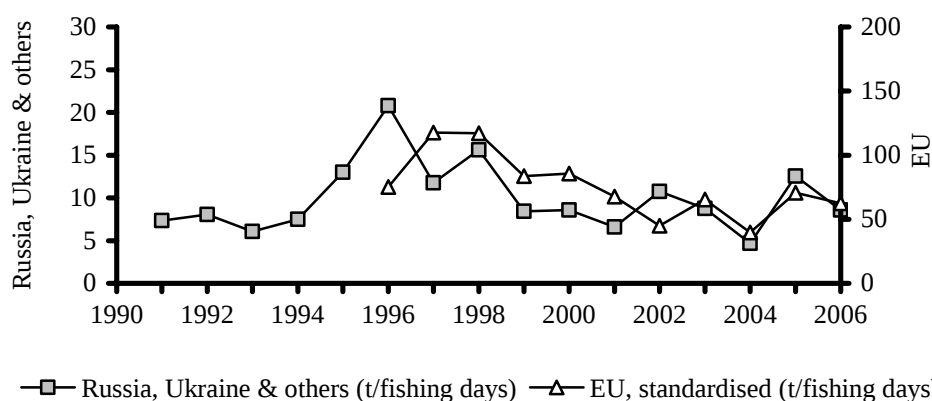


Figure 3.3.1a: CPUE of *Sardinella* spp. (1990–2006) by fishery in Mauritania (tonnes/fishing days)/CPUE de *Sardinella* spp. (1990-2006) par pêcherie en Mauritanie (tonnes/jours de pêche)

**CPUE *Sardinella* spp.
Senegal artisanal**

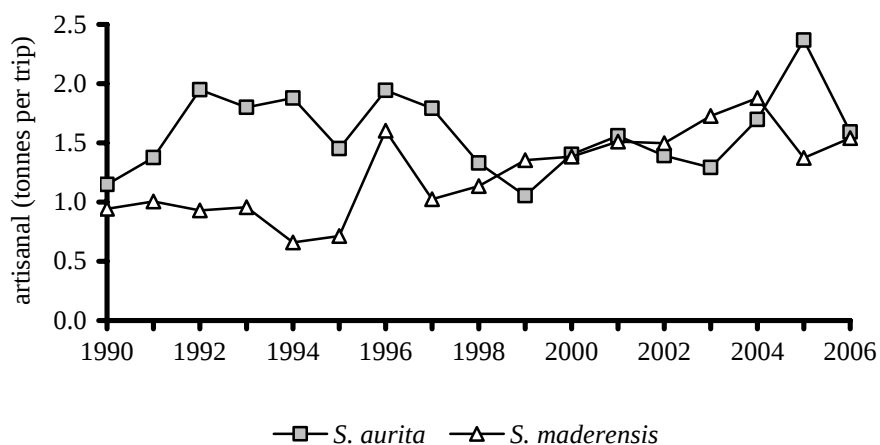


Figure 3.3.1b: CPUE of *Sardinella* spp. (1990–2006) by species for the artisanal fishery in Senegal (tonnes/number of trips)/CPUE de *Sardinella* spp. (1990-2006) par espèce pour la pêche artisanale au Sénégal (tonnes/nombre de sorties)

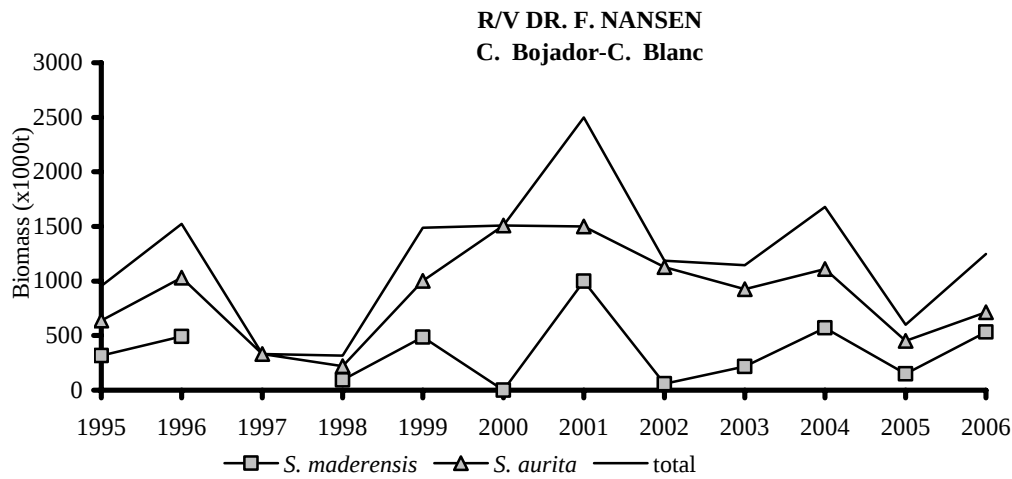


Figure 3.3.2a: Biomass estimates of *S. aurita* and *S. maderensis* (1995–2006) North of Cape Blanc, R/V DR. FRIDTJOF NANSEN (weight in thousand tonnes)/Estimations de la biomasse de *S. aurita* et *S. maderensis* (1995-2006) pour la zone nord du Cap Blanc, N/R DR. FRIDTJOF NANSEN (poids en milliers de tonnes)

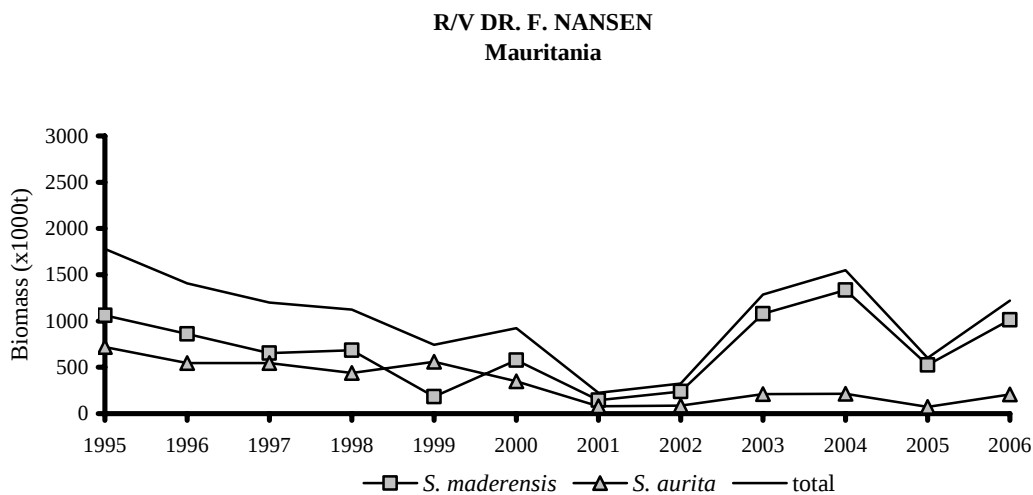


Figure 3.3.2b: Biomass estimates of *S. aurita* and *S. maderensis* (1995–2006) for Mauritania, R/V DR. FRIDTJOF NANSEN (weight in thousand tonnes)/Estimations de la biomasse de *S. aurita* et *S. maderensis* (1995-2006) pour la Mauritanie, N/R DR. FRIDTJOF NANSEN (poids en milliers de tonnes)

R/V DR. F. NANSEN
Senegal & The Gambia

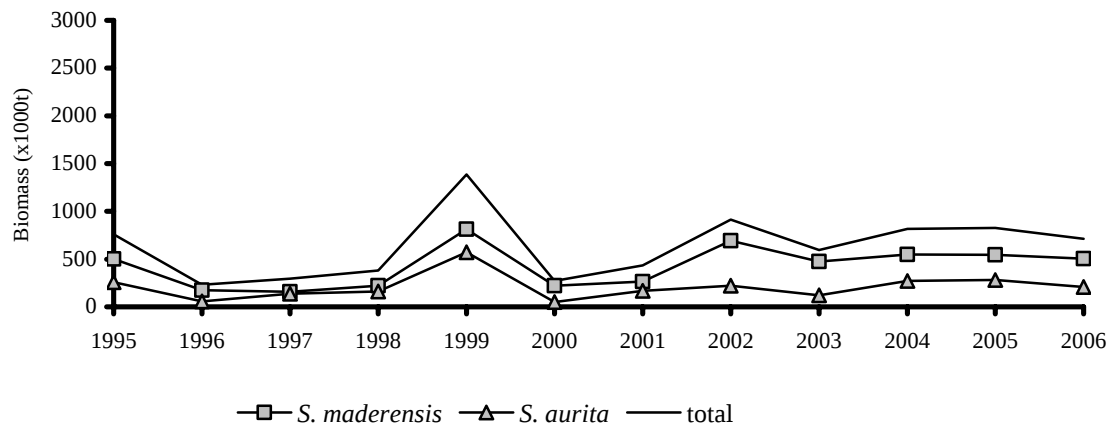


Figure 3.3.2c: Biomass estimates of *S. aurita* and *S. maderensis* (1995–2006) for Senegal and Gambia, R/V DR. FRIDTJOF NANSEN (weight in thousand tonnes)/Estimations de la biomasse de *S. aurita* et *S. maderensis* (1995-2006) pour le Sénégal et la Gambie, N/R DR. FRIDTJOF NANSEN (poids en milliers de tonnes)

R/V DR. F. NANSEN
Total

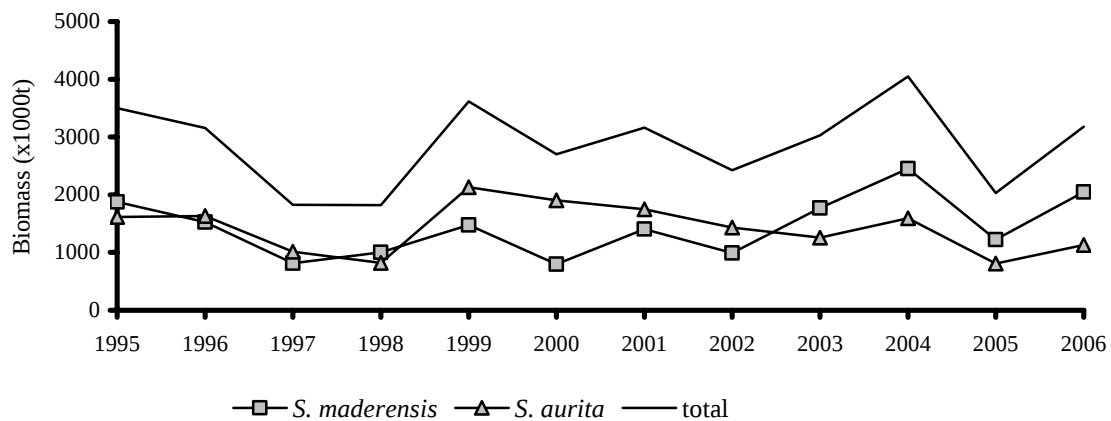
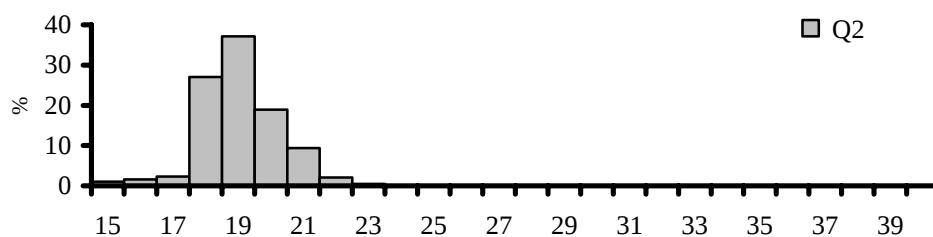
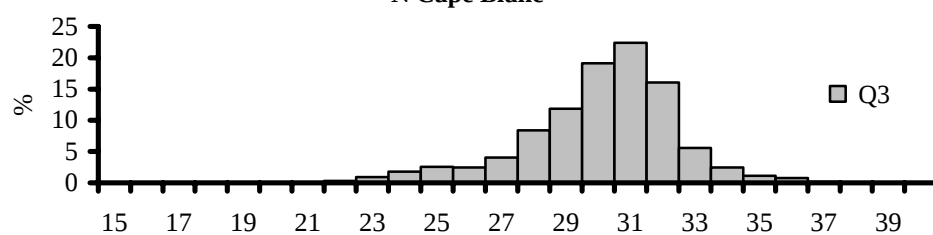


Figure 3.3.2d: Biomass estimates of *S. aurita* and *S. maderensis* (1995–2006) for the sub-region, R/V DR. FRIDTJOF NANSEN (weight in thousand tonnes)/Estimations de la biomasse de *S. aurita* et *S. maderensis* (1995-2006) pour la sous-région, N/R DR. FRIDTJOF NANSEN (poids en milliers de tonnes)

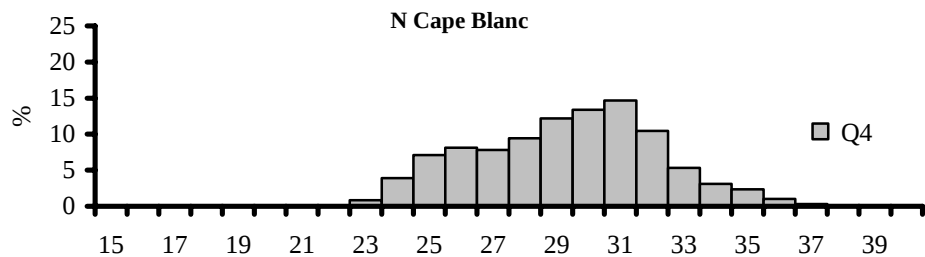
N Cap Blanc



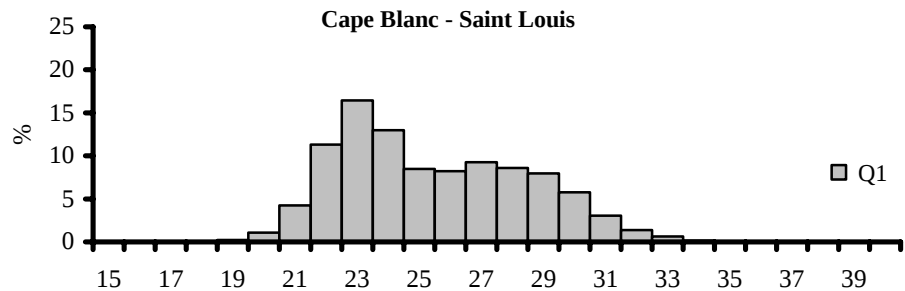
N Cape Blanc



N Cape Blanc



Cape Blanc - Saint Louis



Cape Blanc - Saint Louis

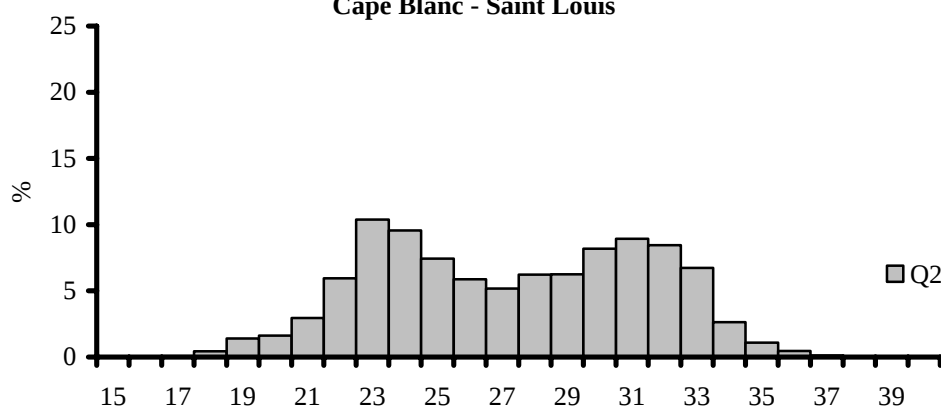


Figure 3.5.1a: Length distribution of landings of *Sardinella aurita* in the sub-region (2006) by quarter/Distribution par taille des débarquements de *Sardinella aurita* dans la sous-région par trimestre (2006)

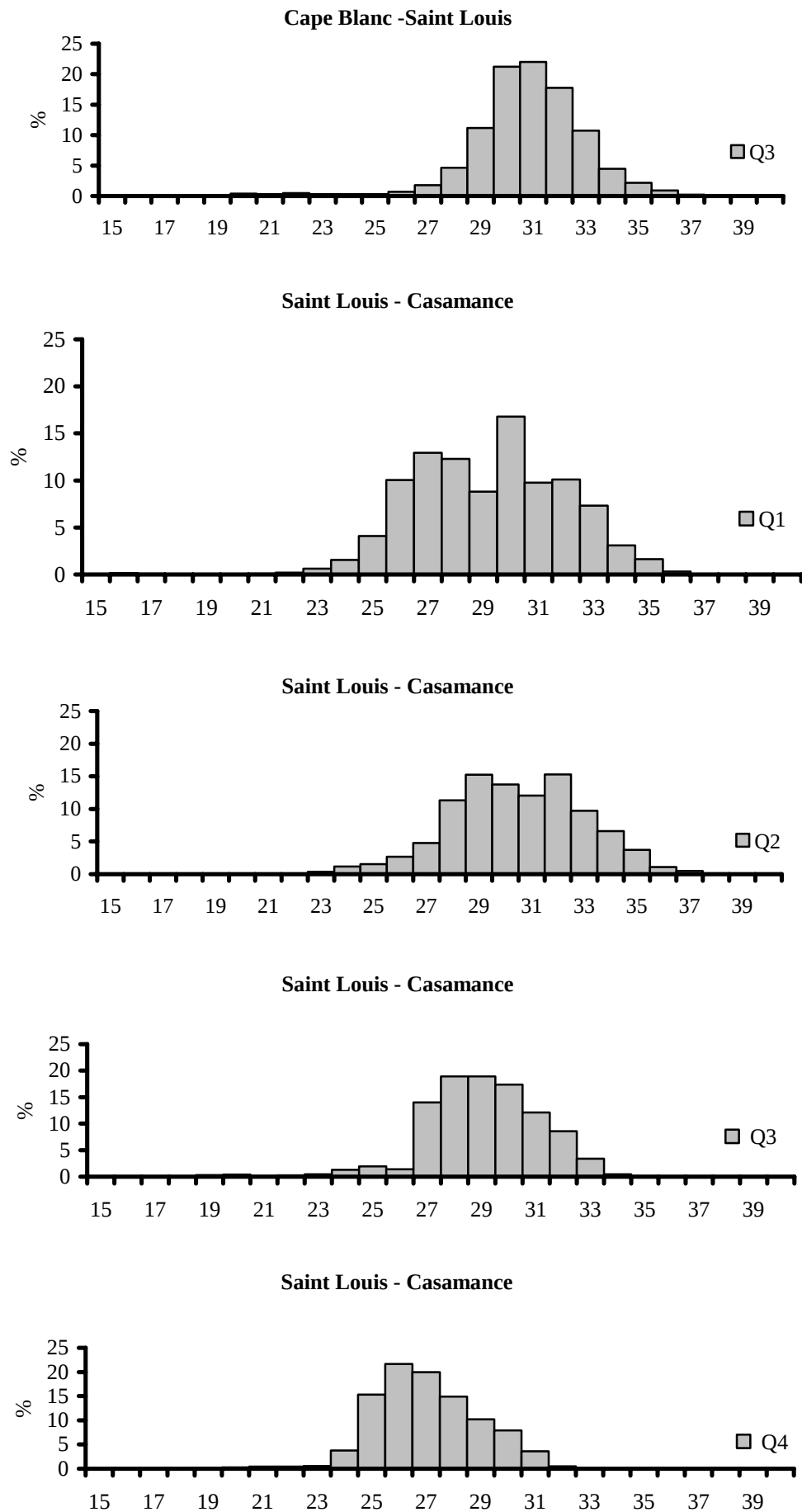


Figure 3.5.1a (cont.): Length distribution of landings of *Sardinella aurita* in all the sub-region (2006) by quarter/Distribution par taille des débarquements de *Sardinella aurita* dans toute la sous-région par trimestre (2006)

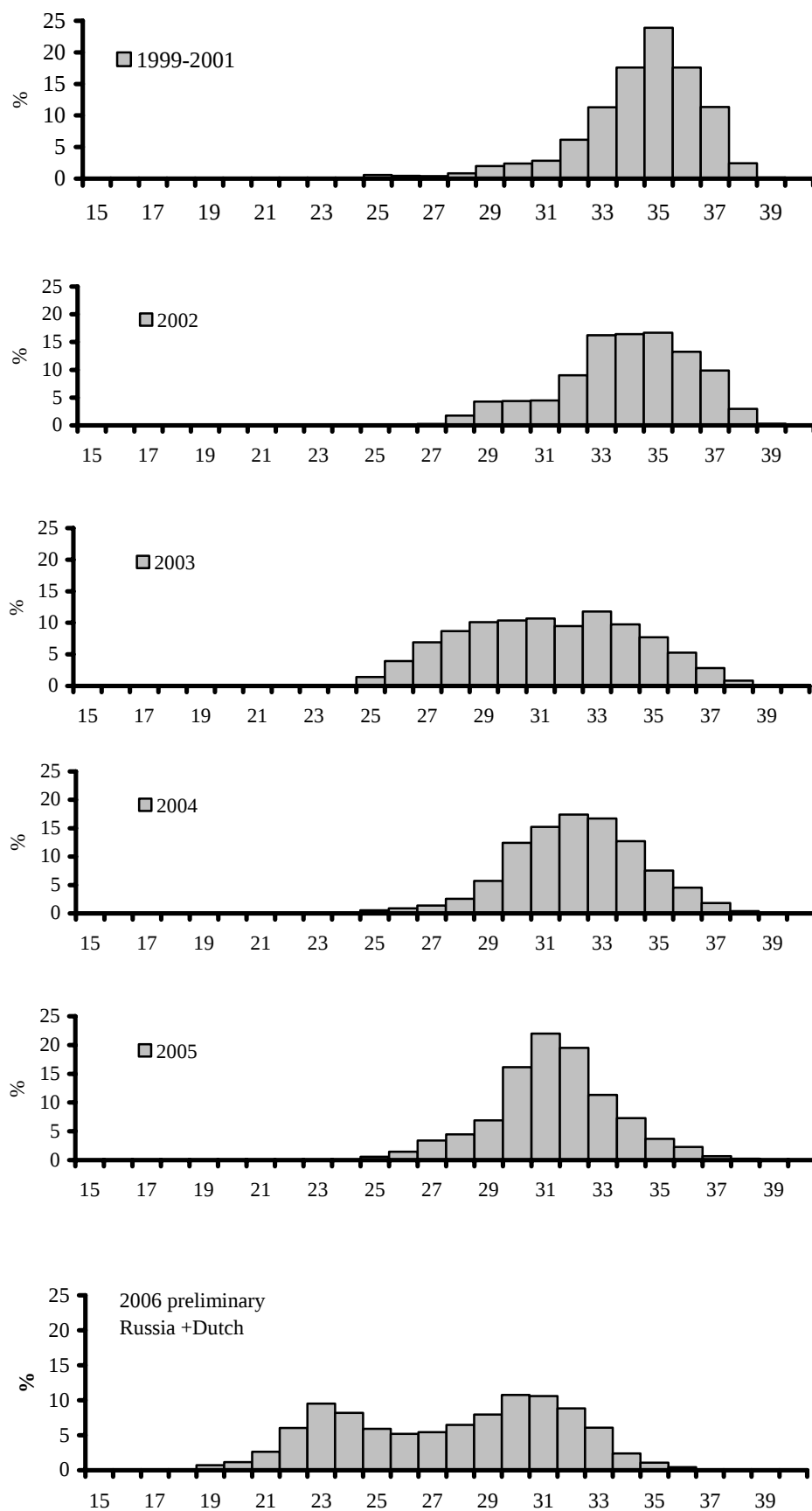
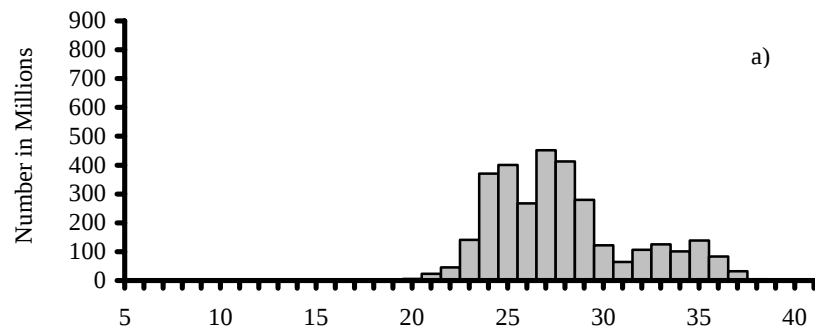
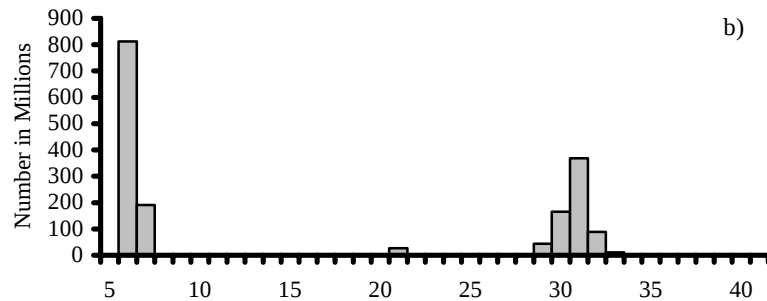


Figure 3.5.1b: Length distribution of Dutch landings of *Sardinella aurita* in Mauritania (1999–2005), Russian Federation + Dutch (2006)/Distribution par taille des débarquements néerlandais de *Sardinella aurita* en Mauritanie (1999-2005), Fédération de Russie + Pays-Bas (2006)

C. Boujador-C. Blanc
R/V DR. F. NANSEN Nov-Dec 2006



Mauritania
R/V DR. F. NANSEN Nov-Dec 2006



Senegal-Gambia
R/V DR.F. NANSEN Nov-Dec 2006

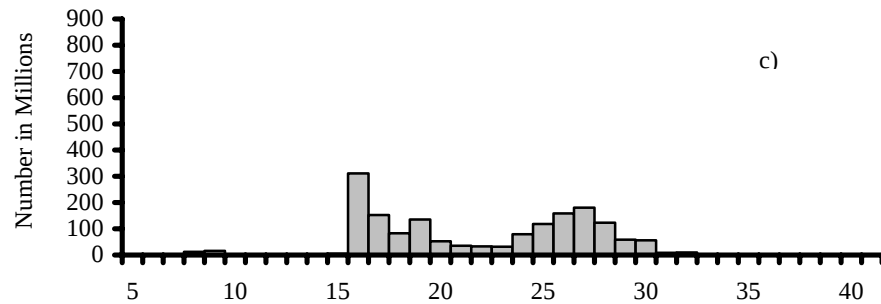


Figure 3.5.2a,b,c: Length composition of *Sardinella aurita* (2006) a) Cape Bojador–Cape Blanc, b) Mauritania, c) Senegal and Gambia (in millions of individuals) R/V DR. FRIDTJOF NANSEN/Composition par taille (2006) de *Sardinella aurita* a) Cap Bojador-Cap Blanc, b) Mauritanie, c) Sénégal et Gambie (en millions d'individus) N/R DR. FRIDTJOF NANSEN

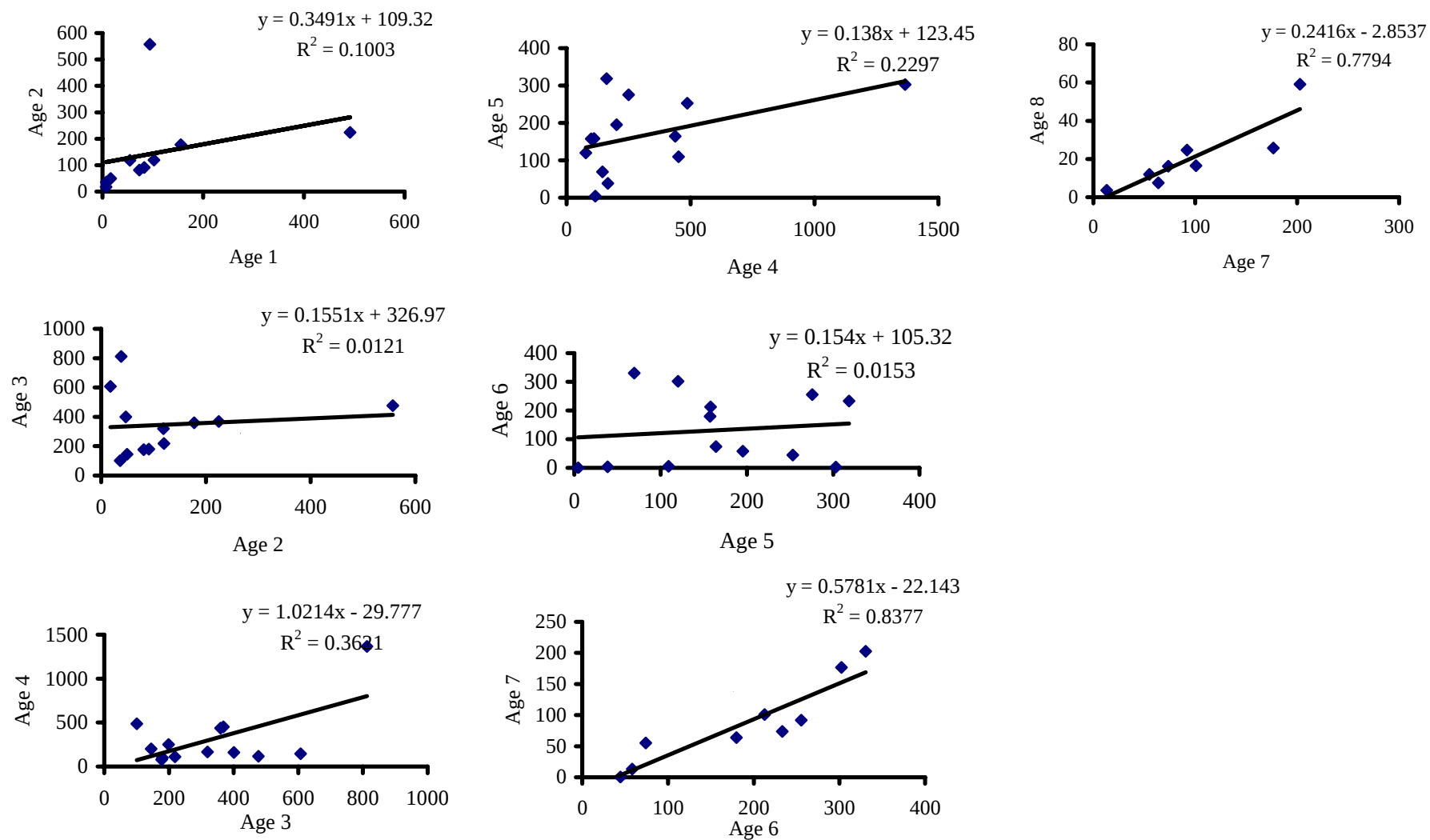


Figure 3.6.1: Exploratory analyses of the data for *Sardinella aurita* (Russian age-length key)/Analyses exploratoires des données pour la *Sardinella aurita* (clé âge-longueur russe)

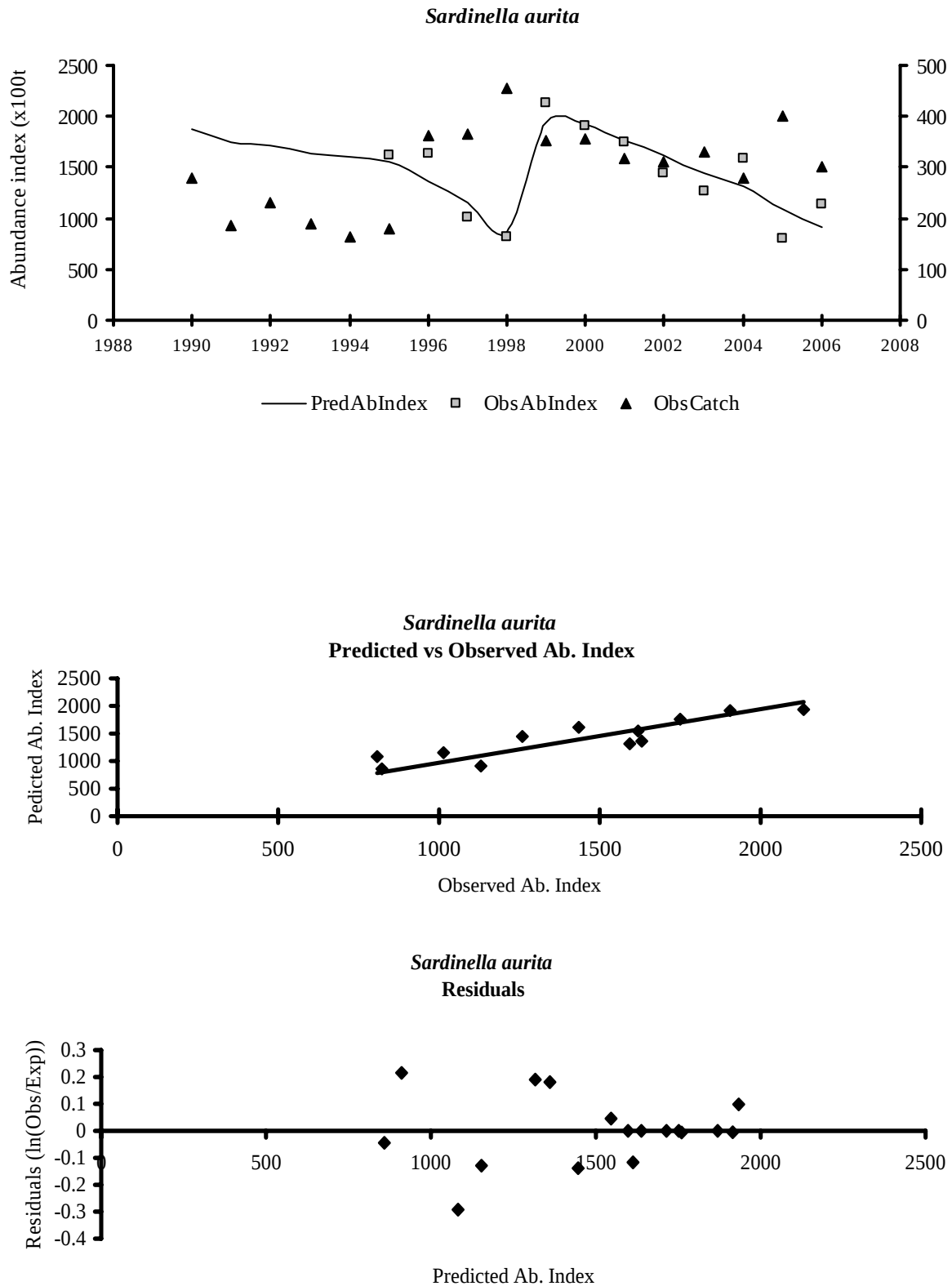


Figure 3.6.2: Observed and predicted abundance indices for *Sardinella aurita* using biomass estimates from R/V DR. FRIDTJOF NANSEN (1995–2006), and diagnostics of the model fit/Indices d’abondance observés et prévus pour la *Sardinella aurita* en utilisant les estimations de biomasse du N/R DR. FRIDTJOF NANSEN (1995-2006) et les diagnostics du modèle

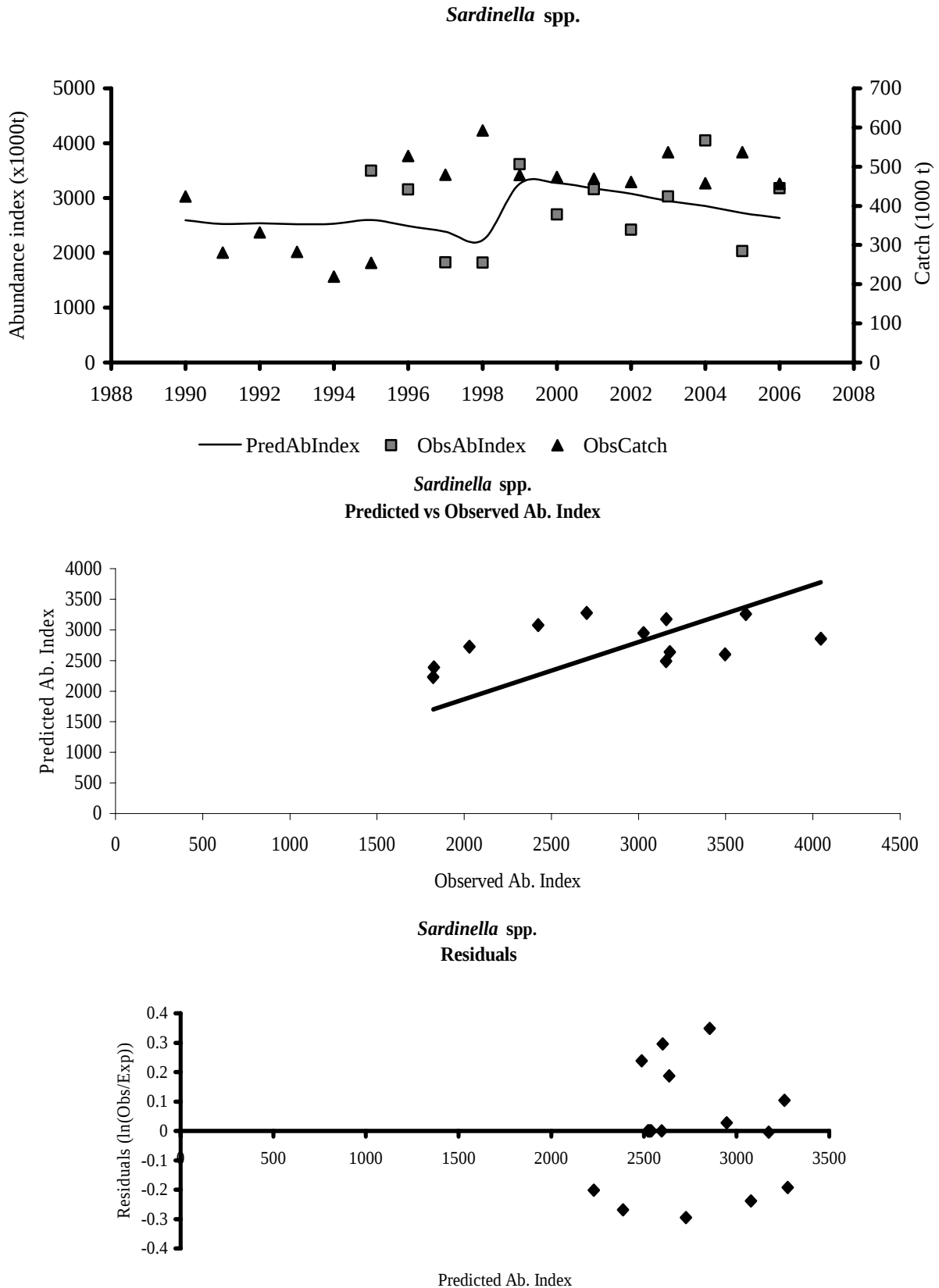


Figure 3.6.3: Observed and predicted abundance indices for *Sardinella* spp. using biomass estimates from R/V DR. FRIDTJOF NANSEN (1995–2005) and diagnostics of the model fit/Indices d'abondance observés et prévus pour *Sardinella* spp. en utilisant les estimations de biomasse du N/R DR. FRIDTJOF NANSEN (1995–2005) et les diagnostics du modèle

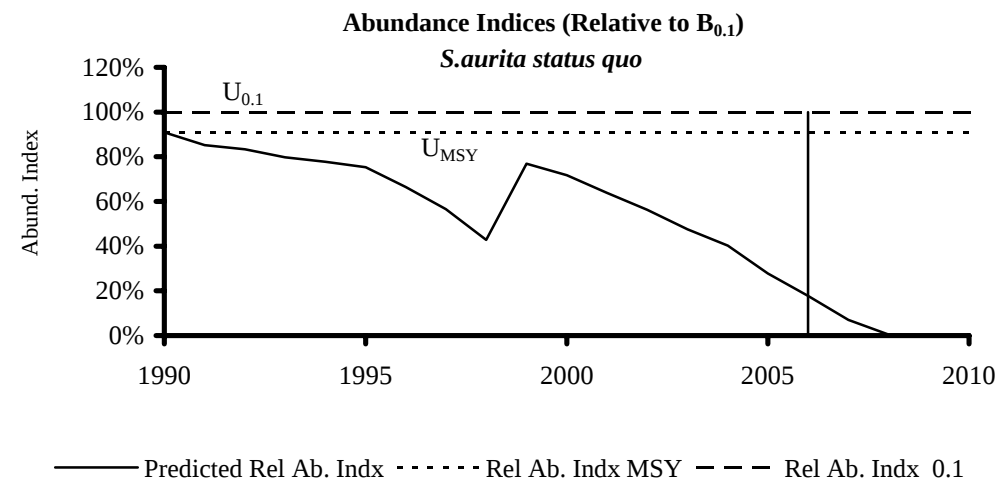
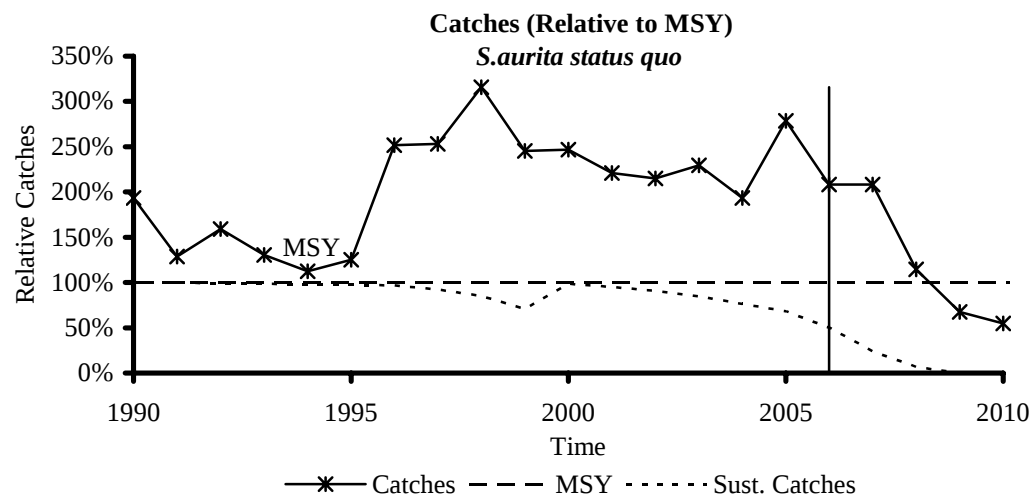
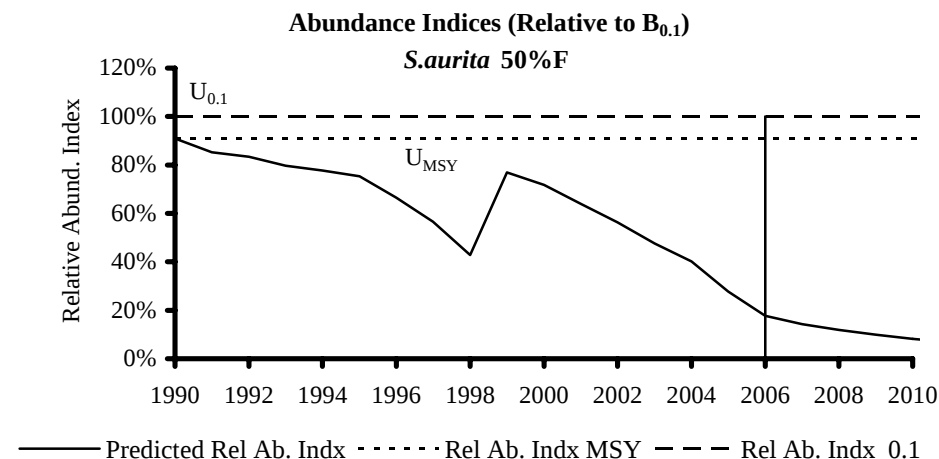
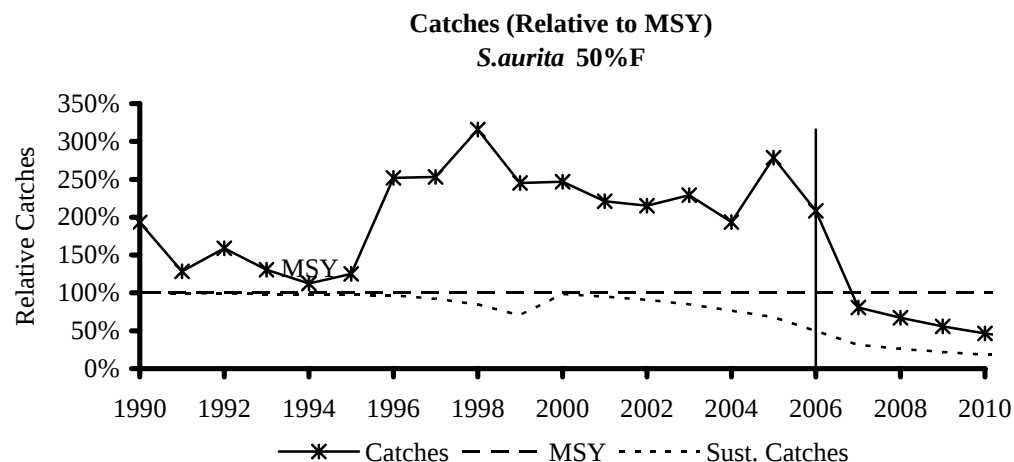


Figure 3.7.1a: Predicted trends in catches and abundance of *Sardinella aurita* – Scenario I (*status quo*)/Prédictions des captures et de l'abondance pour la *Sardinella aurita* – Scénario I (*status quo*)



Figures 3.7.1b: Predicted trends in catches and abundance of *Sardinella aurita* Scenario II (50% decrease in effort)/Prédictions des captures et de l'abondance pour la *Sardinella aurita* – Scénario II (diminution de 50% de l'effort)

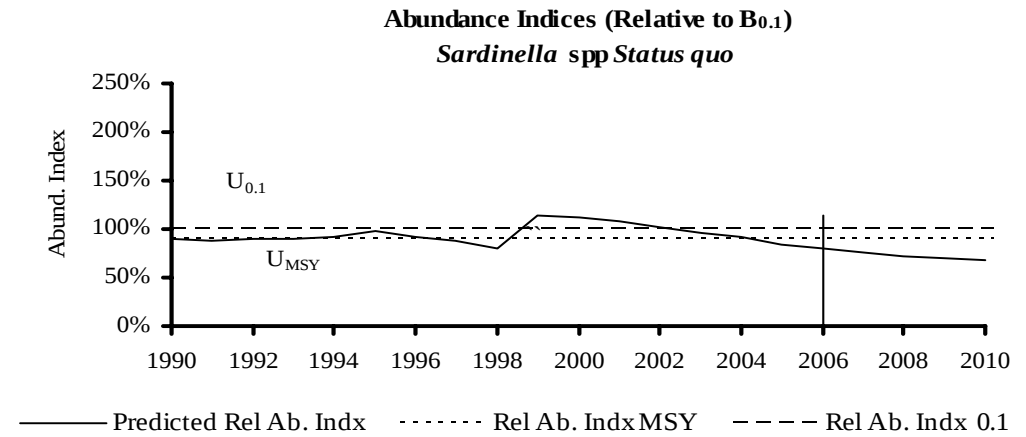
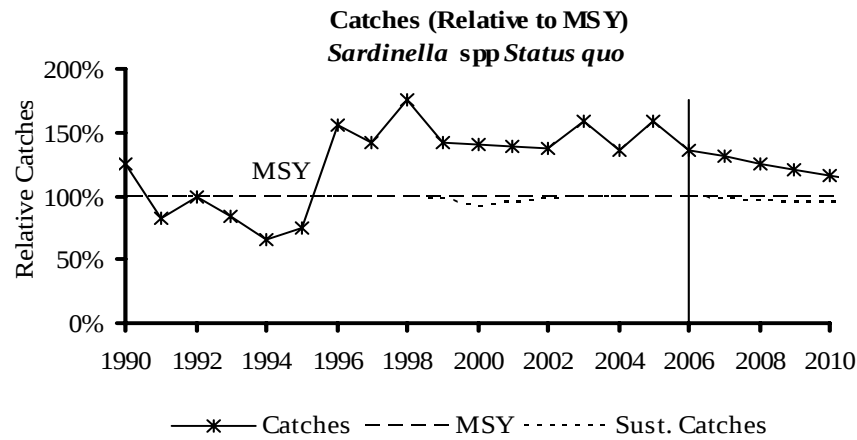
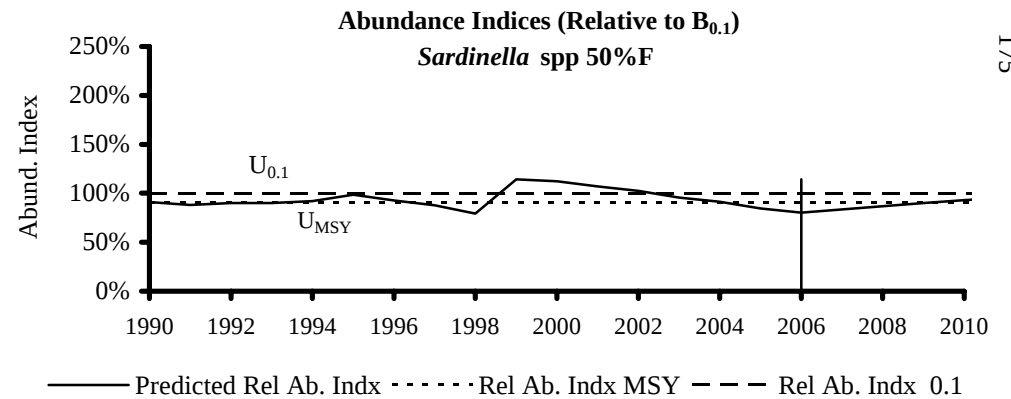
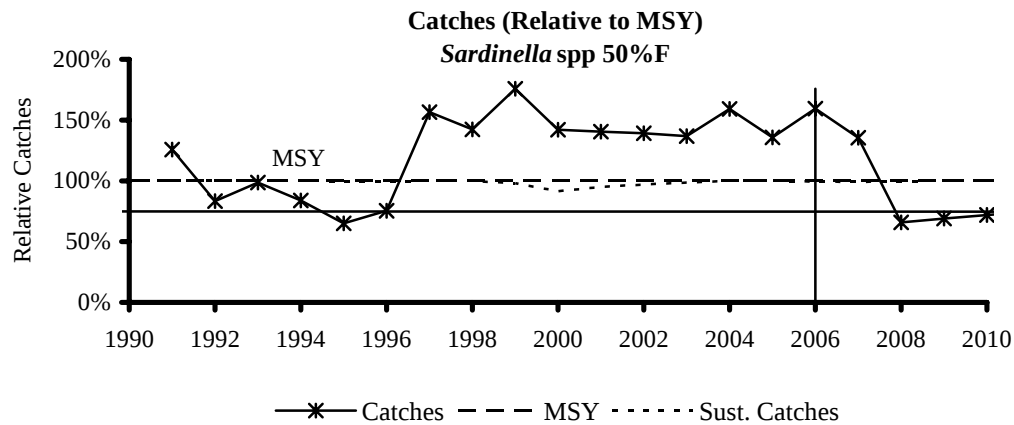


Figure 3.7.2a: Predicted trends in catches and abundance of *Sardinella* spp. – Scenario I (*status quo*)/Prédictions des captures et de l’abondance pour les *Sardinella* spp. – Scénario I (*statu quo*)



Figures 3.7.2b: Predicted trends in catches and abundance of *Sardinella* spp. – Scenario II (50% decrease in effort)/Prédictions des captures et de l’abondance pour les *Sardinella* spp. – Scénario II (diminution de 50% de l’effort)

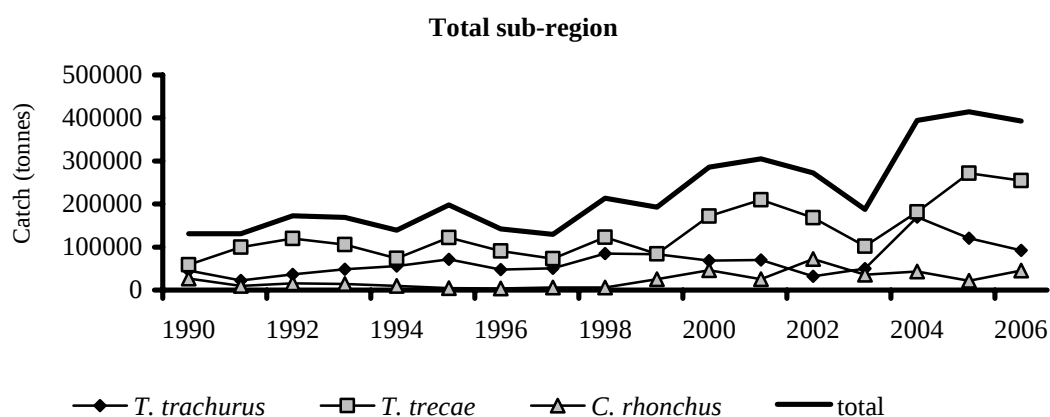


Figure 4.2.1: Total catches (tonnes) of horse mackerel in the sub-region by species and year (1990–2006)/Captures totales (tonnes) de chinchards dans la sous-région par espèce et par année (1990-2006)

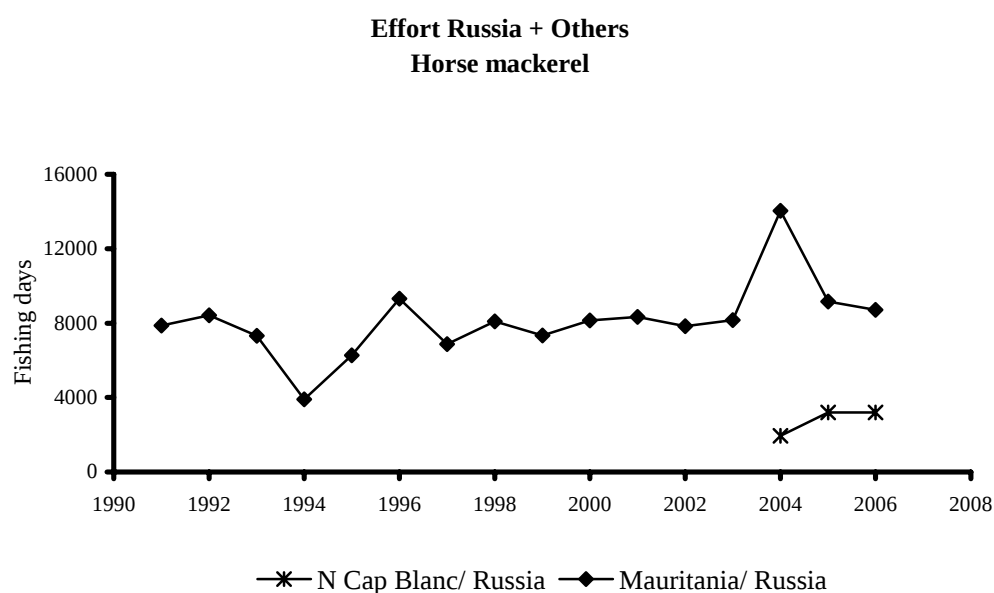


Figure 4.2.2: Effort (fishing days) of Russian fleet in Mauritania and to the north of Cap Blanc (1990–2006)/Effort (jours de pêche) de la flottille russe en Mauritanie et au nord du Cap Blanc (1990-2006)

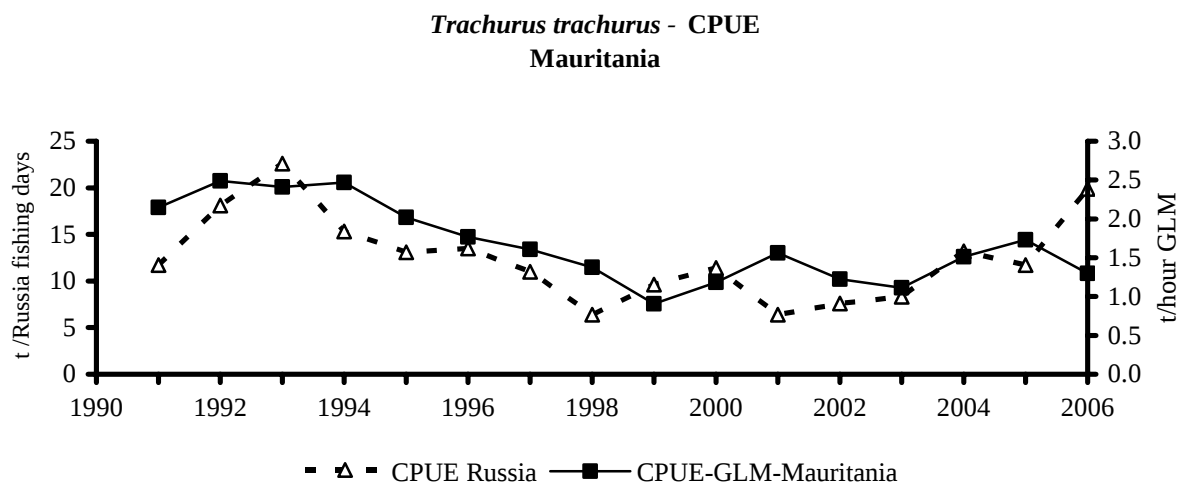


Figure 4.3.1a: CPUE of *Trachurus trachurus*, Mauritania (1990–2006)/CPUE de *Trachurus trachurus*, Mauritanie (1990–2006)

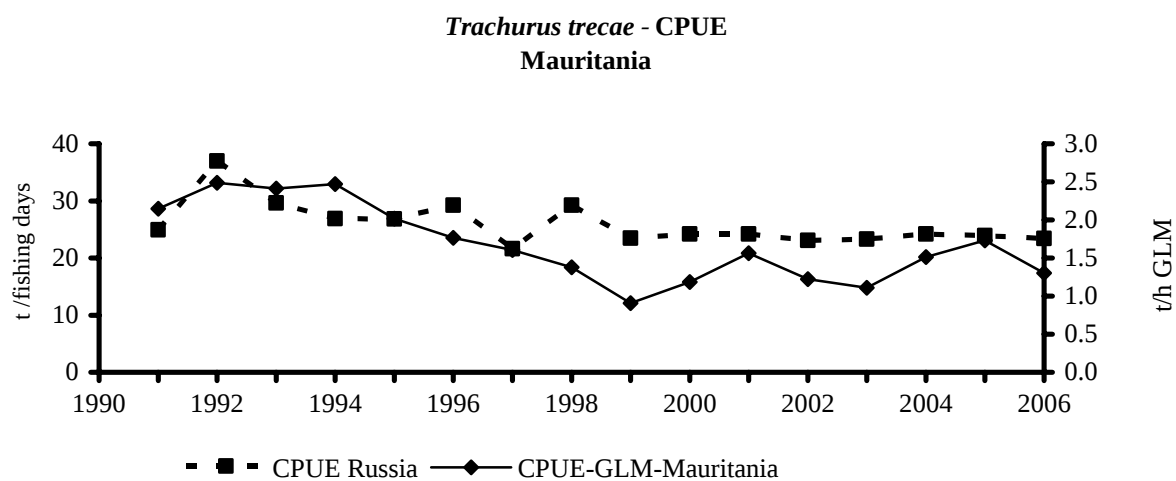


Figure 4.3.1b: CPUE of *Trachurus trecae*, Mauritania/CPUE de *Trachurus trecae*, Mauritanie

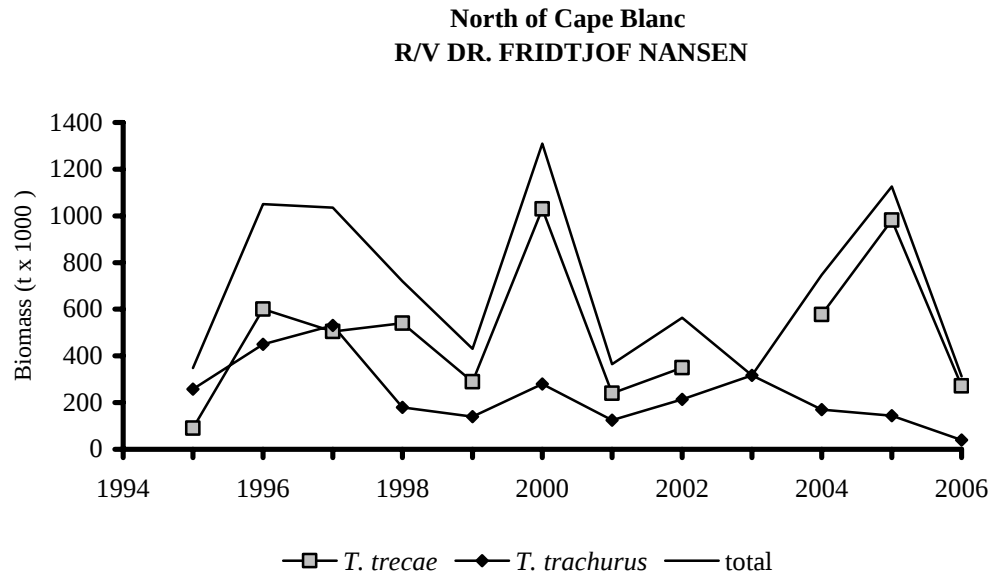


Figure 4.3.2a: Biomass estimates of *Trachurus trachurus* and *T. trecae* (1995–2006) for the Zone north of Cape Blanc, R/V DR. FRIDTJOF NANSEN (Nov.–Dec.)/Estimations de biomasse de *Trachurus trachurus* et *T. trecae* (1995–2006) pour la zone au nord du Cap Blanc, N/R DR. FRIDTJOF NANSEN (nov.–déc.)

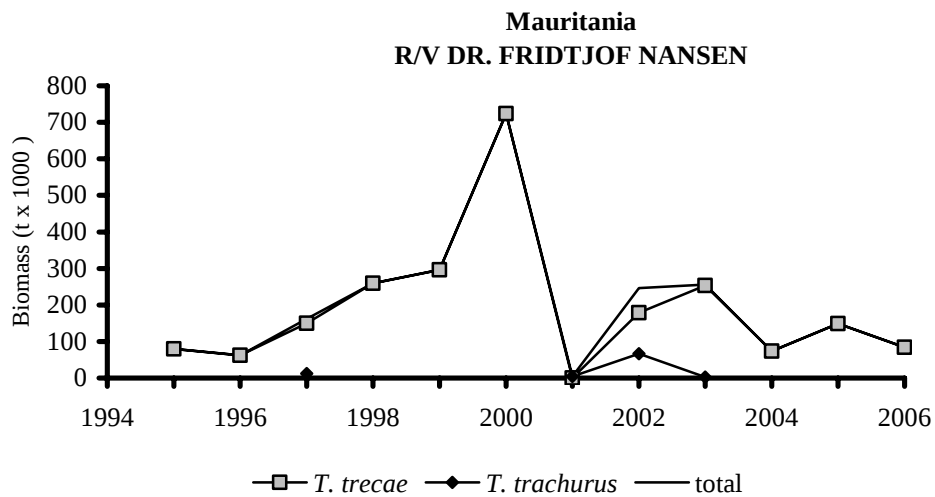


Figure 4.3.2b: Biomass estimates of *Trachurus trachurus* and *T. trecae* (1995–2006) for Mauritania, R/V DR. FRIDTJOF NANSEN (Nov.–Dec.)/Estimations de biomasse de *Trachurus trachurus* et *T. trecae* (1995–2006) en Mauritanie, N/R DR. FRIDTJOF NANSEN (nov.–déc.)

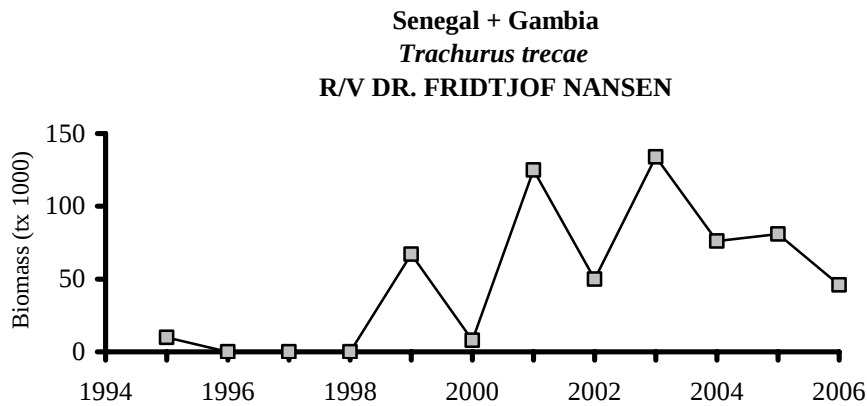


Figure 4.3.2c: Biomass estimates of *Trachurus trecae* (1995–2006) for Senegal and The Gambia, R/V DR. FRIDTJOF NANSEN (Nov.–Dec.)/Estimations de biomasse de *Trachurus trecae* (1995–2006) au Sénégal et en Gambie, N/R DR. FRIDTJOF NANSEN (nov.–déc.)

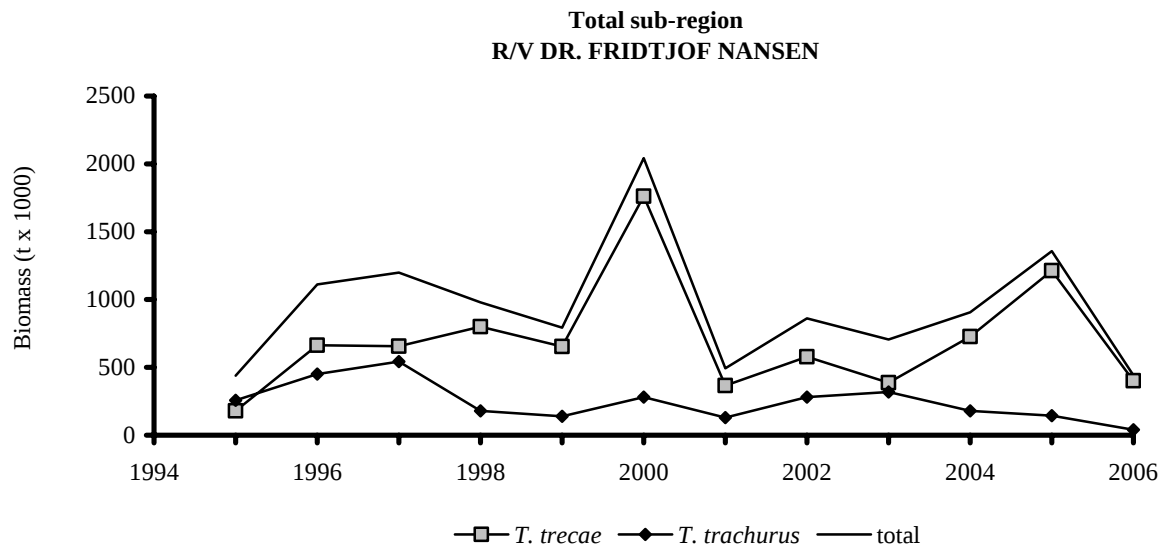


Figure 4.3.2d: Biomass estimates of *Trachurus trecae* and *T. trachurus* (1995–2006) for all the sub-region, R/V DR. FRIDTJOF NANSEN (Nov.–Dec.)/Estimations de biomasse de *Trachurus trachurus* et *T. trecae* (1995–2006) pour toute la sous-région, N/R DR. FRIDTJOF NANSEN (nov.–déc.)

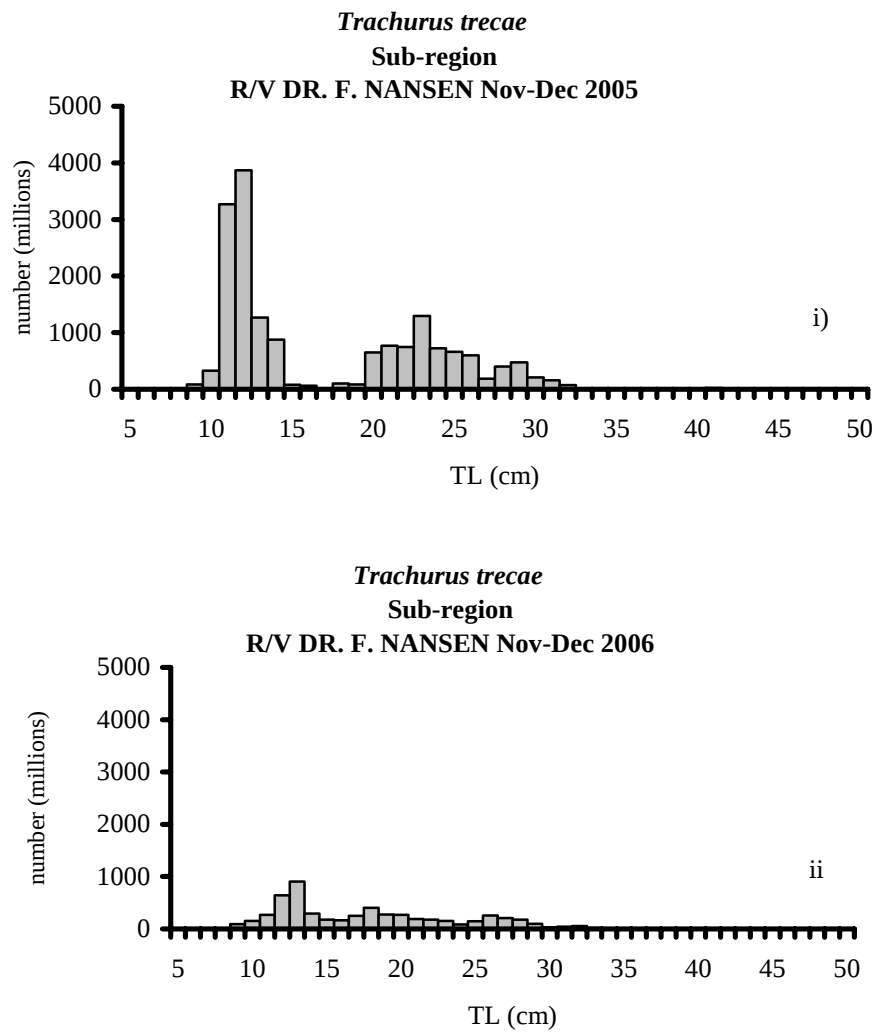


Figure 4.5.1a: Length composition for *Trachurus trecae*: i) Nov.–Dec. 2005 and ii) Nov.–Dec. 2006, R/V DR. FRIDTJOF NANSEN/Composition par taille pour *Trachurus trecae*: i) nov.-déc. 2005 et ii) nov-déc. 2006, N/R DR. FRIDTJOF NANSEN

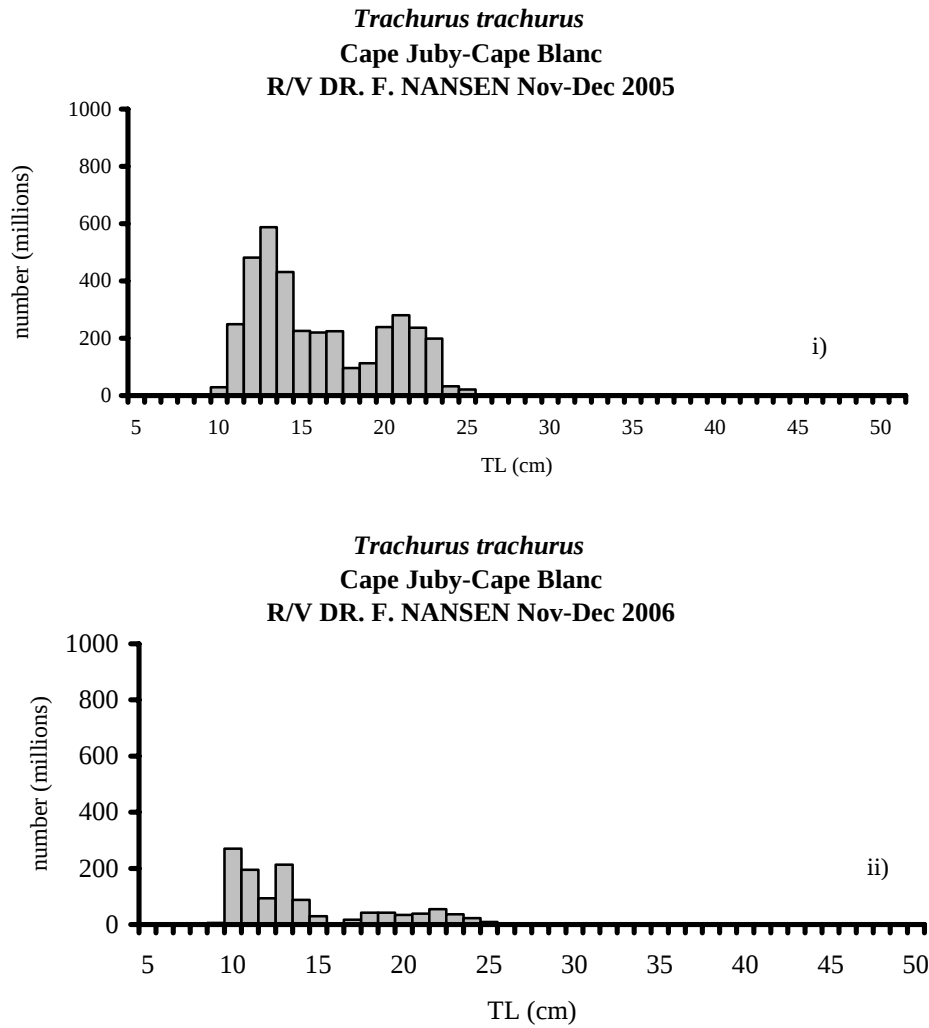


Figure 4.5.1b: Length composition for *Trachurus trachurus*: i) Nov.–Dec. 2005 and ii) Nov.–Dec. 2006, R/V DR. FRIDTJOF NANSEN/Composition par taille pour *Trachurus trachurus*: i) nov.-déc. 2005 et ii) nov.-déc. 2006, N/R DR. FRIDTJOF NANSEN.

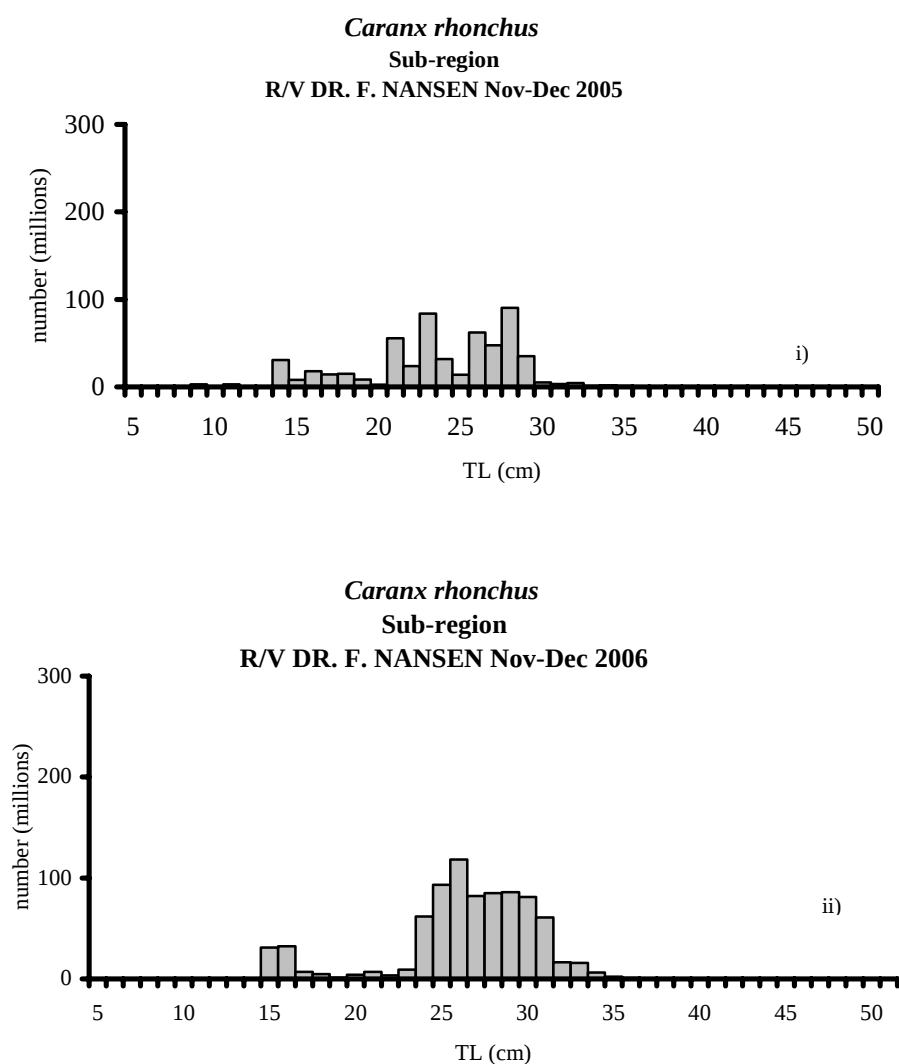


Figure 4.5.1c: Length composition *Caranx rhonchus*: i) Nov.-Dec. 2005 and ii) Nov.-Dec. 2006, R/V DR. FRIDTJOF NANSEN/Composition par taille pour *Caranx rhonchus*: i) nov.-déc. 2005 et ii) nov.-déc. 2006, N/R DR. FRIDTJOF NANSEN

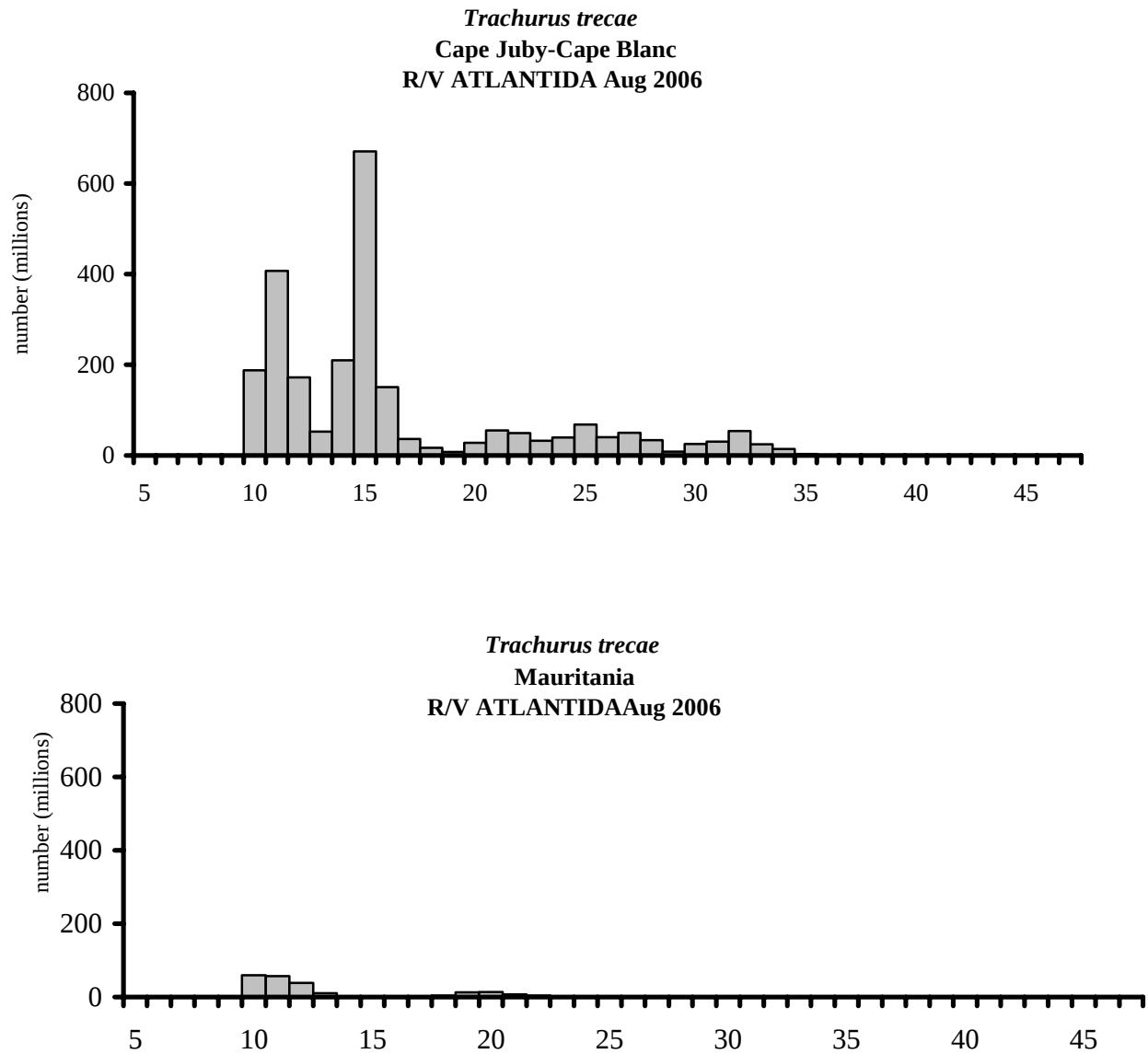


Figure 4.5.2a: Length composition (in million of individuals) for *Trachurus trecae* in August 2006 north and south of Cape Blanc, R/V ATLANTIDA/Composition par taille (en millions d'individus) pour *Trachurus trecae* en août 2006 au nord et au sud du Cap Blanc, N/R ATLANTIDA

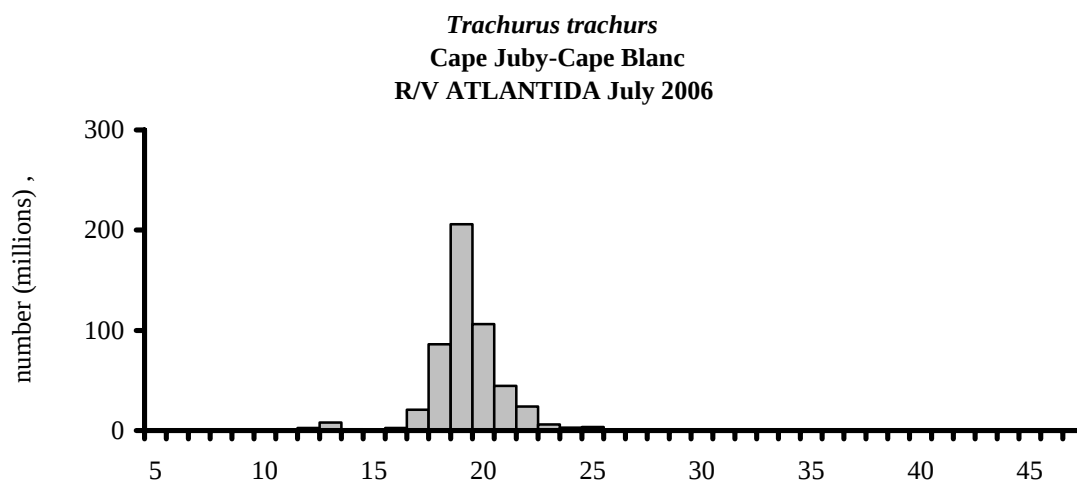


Figure 4.5.2b: Length distribution for *Trachurus trachurus* in July 2006 north and south of Cape Blanc R/V ATLANTIDA/Distribution par taille pour *Trachurus trachurus* en juillet 2006 au nord et au sud du Cap Blanc, N/R ATLANTIDA

Trachurus sp.
Cape Blanc - Cape Bojador
R/V AMIR Nov 2006

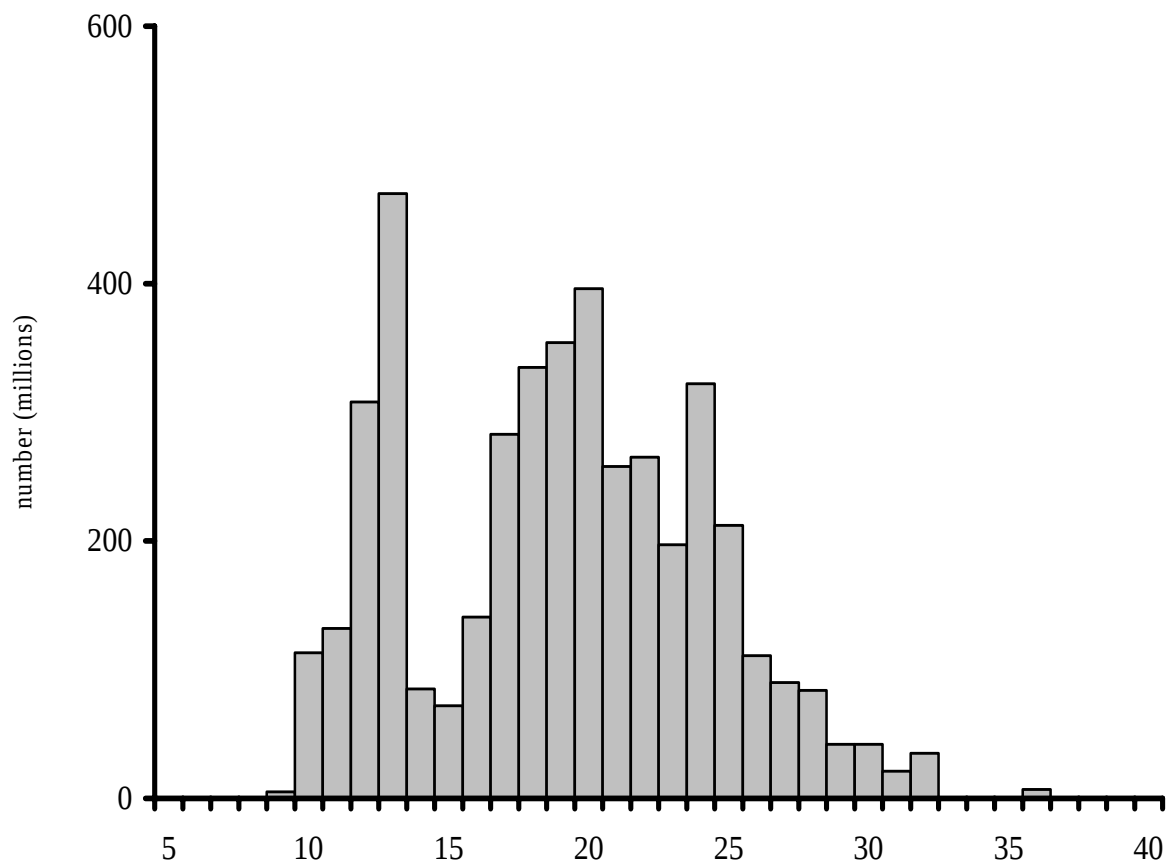


Figure 4.5.3: Length composition (in millions of individuals) for *Trachurus* sp. (Nov. 2006), R/V AL AMIR ABDELLAH/Composition par taille (en millions d'individus) pour *Trachurus* sp. (nov. 2006), N/R AL AMIR ABDELLAH

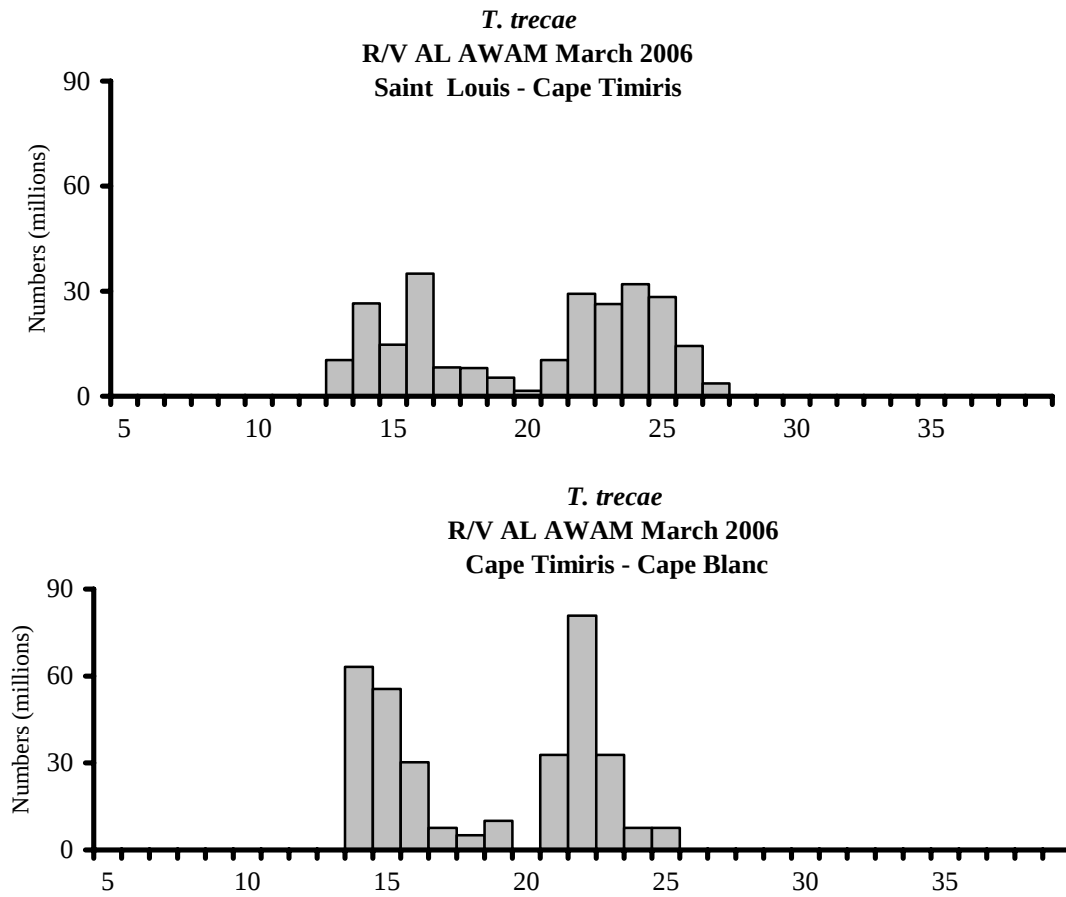


Figure 4.5.4a: Length composition (in millions of individuals) for *Trachurus trecae* (March, 2006), R/V AL AWAM/Composition par taille (en millions d'individus) de *Trachurus trecae* (mars 2006), N/R AL AWAM

T. trachurus
R/V AL AWAM March 2006
Cape Timiris - Cape Blanc

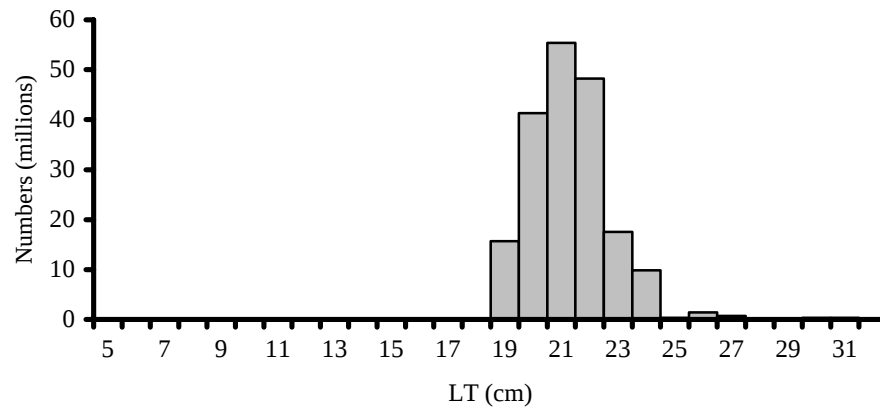


Figure 4.5.4b: Length composition (in millions of individuals) for *Trachurus trachurus* (March 2006), R/V AL AWAM/Composition par taille (en millions d'individus) pour *Trachurus trachurus* (mars 2006), N/R AL AWAM

Caranx rhonchus
R/V AL AWAM March 2006
Cape Timiris - Cape Blanc

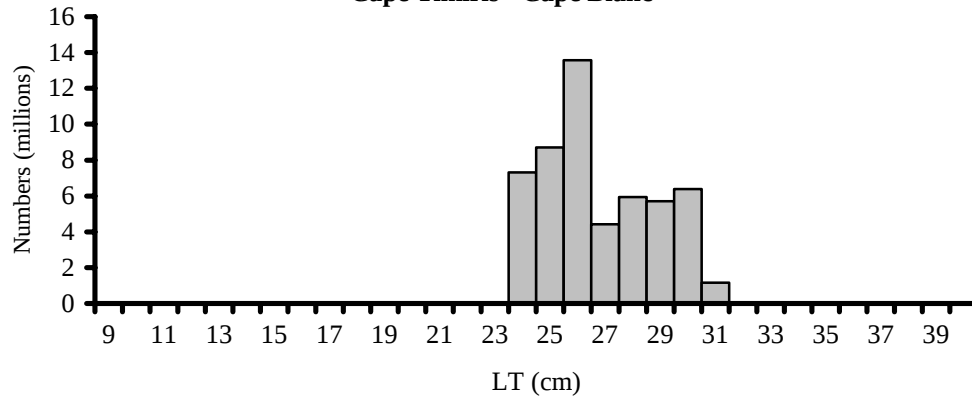


Figure 4.5.4c: Length composition (in millions of individuals) for *Caranx rhonchus* (March 2006), R/V AL AWAM/Composition par taille (en millions d'individus) pour *Caranx rhonchus* (mars 2006), N/R AL AWAM

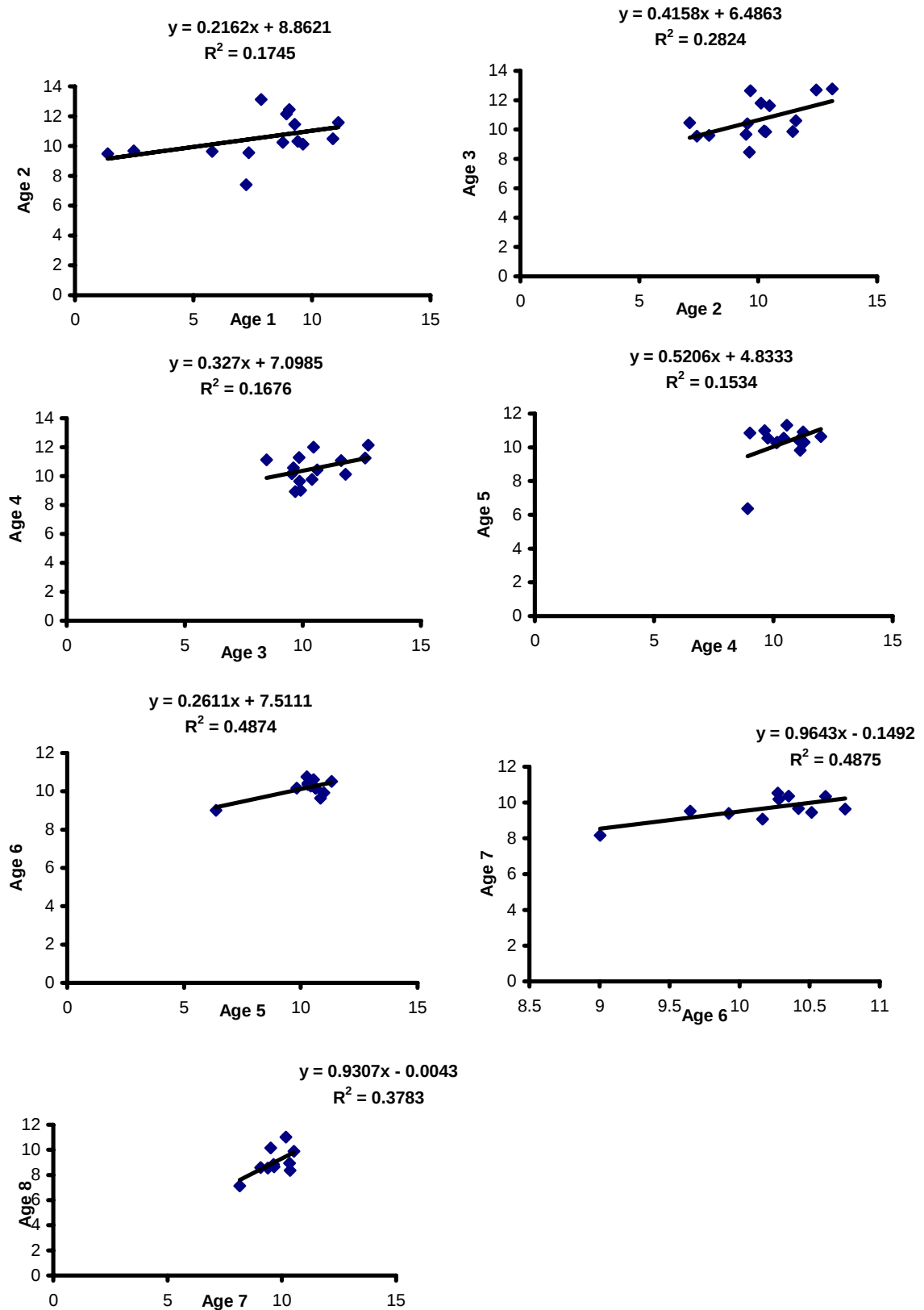


Figure 4.6.1: Exploratory analyses of the data for *Trachurus trachurus* (2006)/Analyses exploratoires des données pour *Trachurus trachurus* (2006)

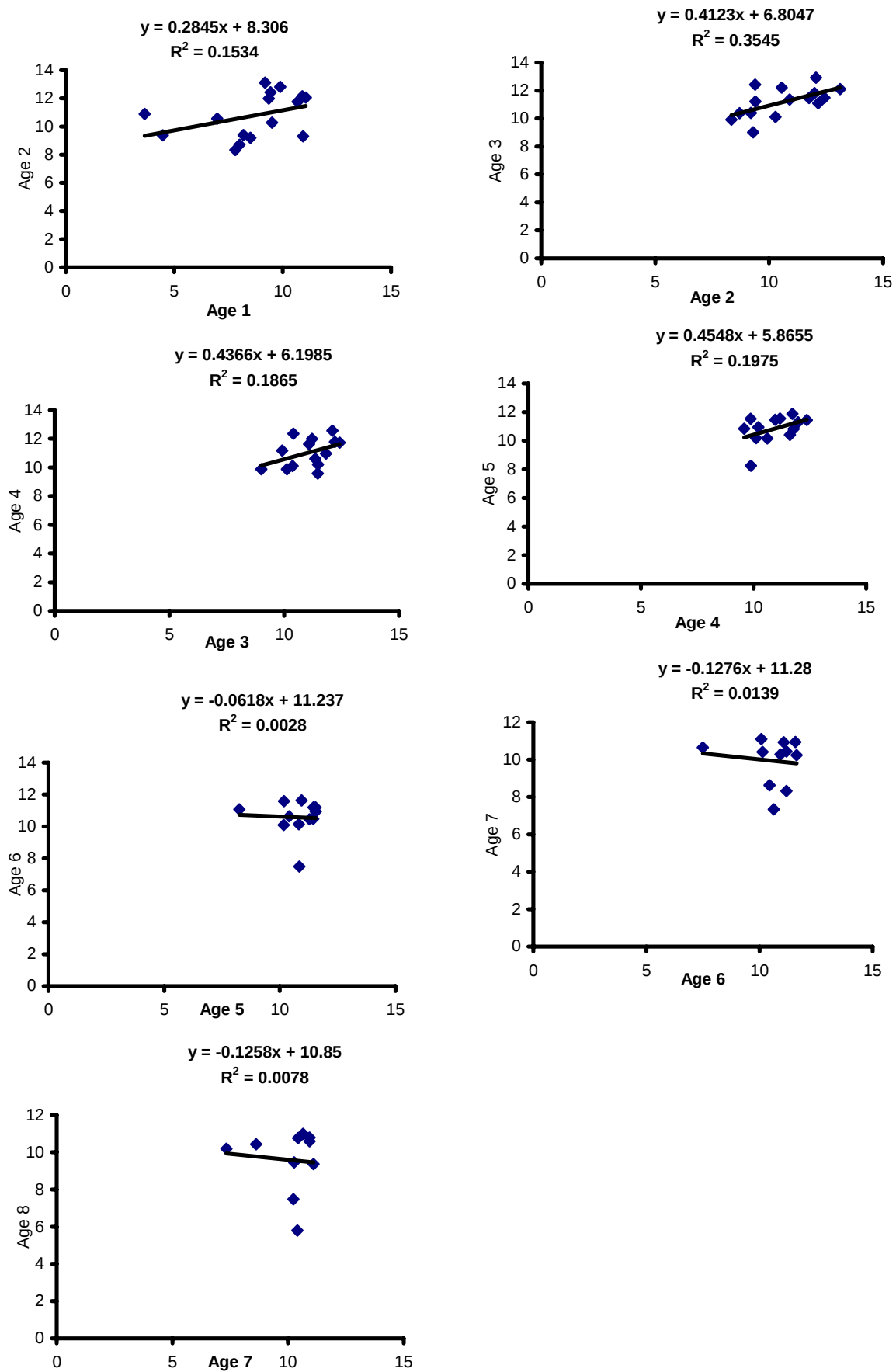


Figure 4.6.2: Exploratory analyses of the data for *Trachurus trecae* (2006)/Analyses exploratoires des données pour *Trachurus trecae* (2006)

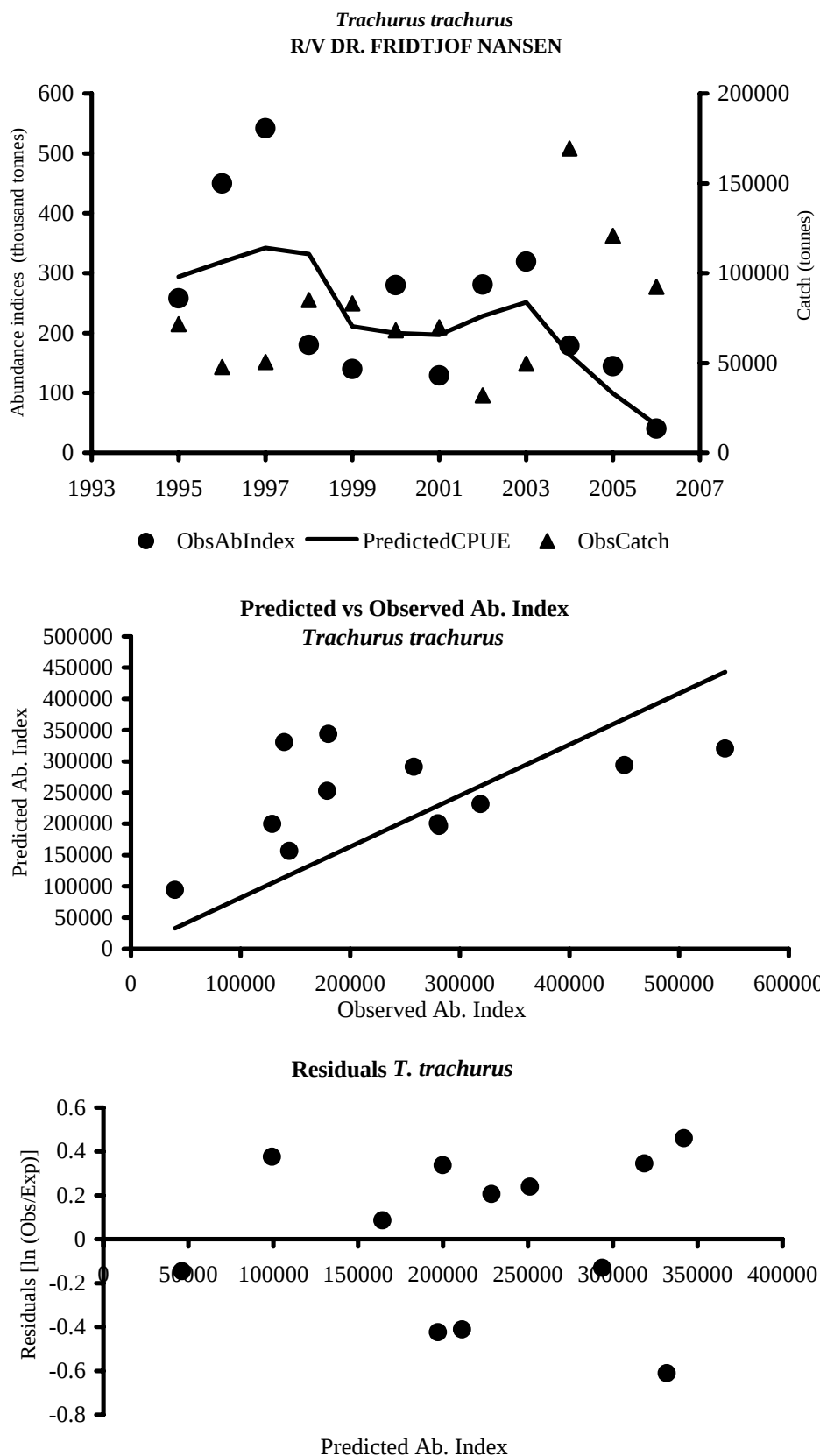


Figure 4.6.3: Observed and predicted abundance indices for *T. Trachurus* using biomass estimates from R/V DR. FRIDTJOF NANSEN and diagnostics of the model fit/Indices d'abondance observés et prévus pour *T. Trachurus* en utilisant les estimations de biomasse du N/R DR. FRIDTJOF NANSEN et les diagnostics du modèle

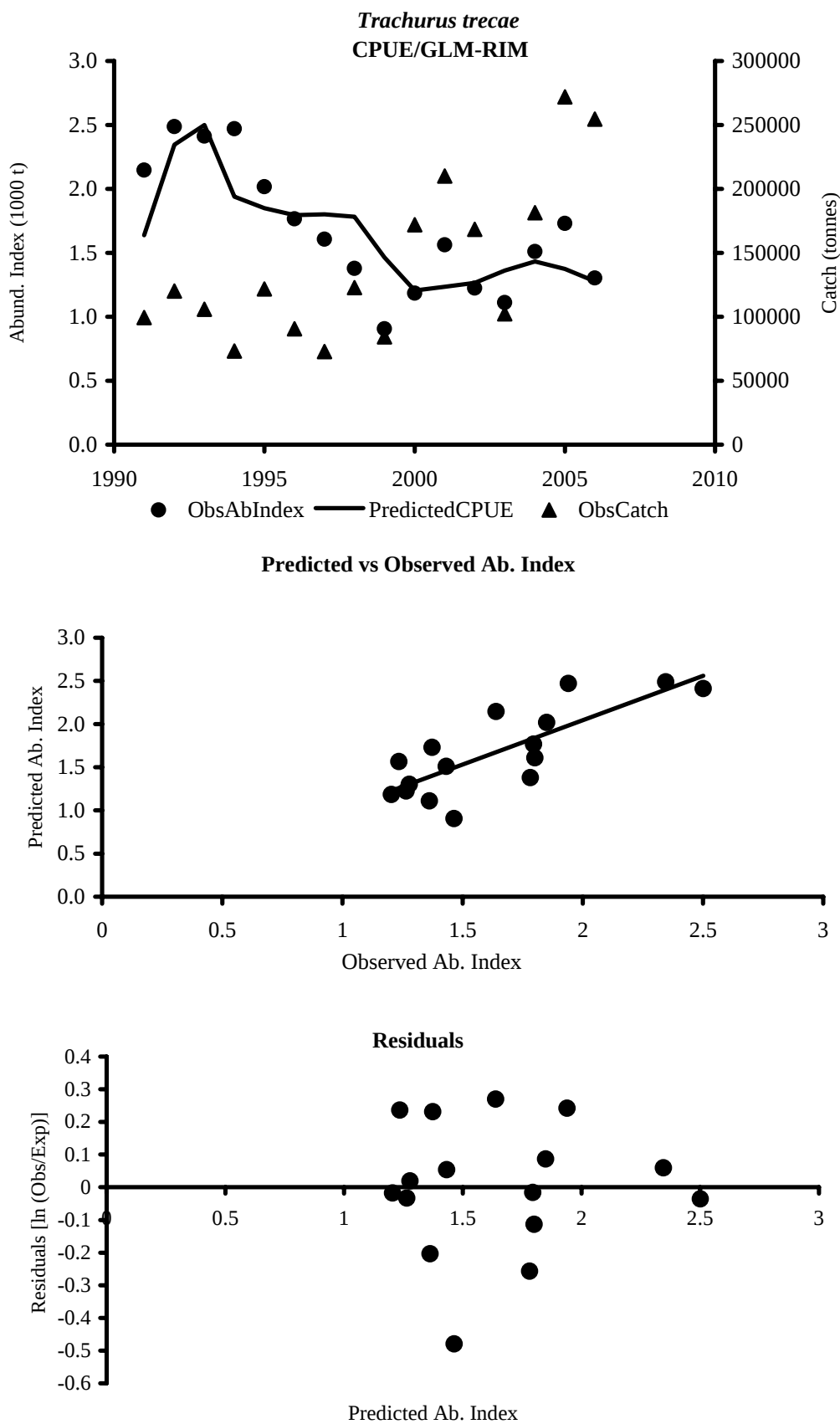


Figure 4.6.4: Observed and predicted abundance indices for *T. trecae* using CPUE/GLM-RIM as abundance index and diagnostics of the model fit/Indices d'abondance observés et prévus pour *T. trecae* en utilisant CPUE/GLM-RIM comme indice d'abondance et les diagnostics du modèle

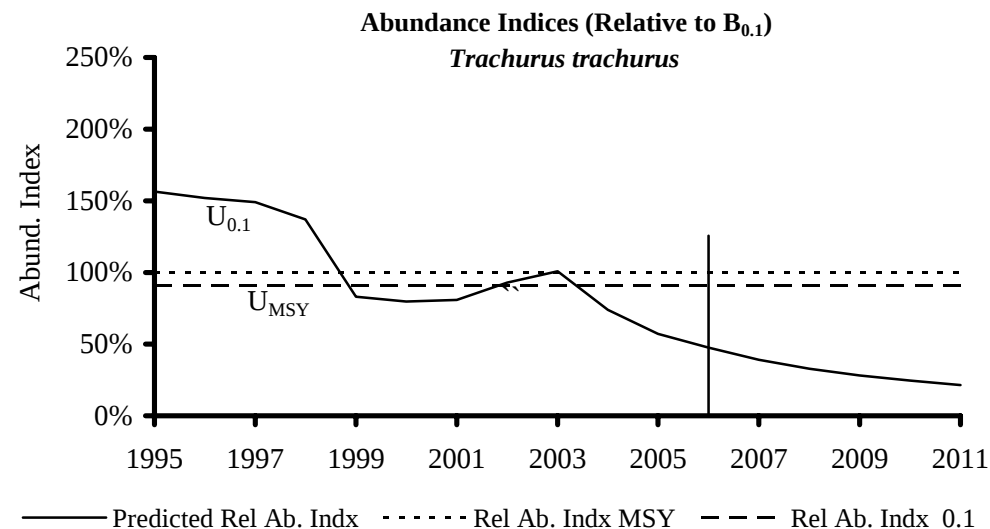
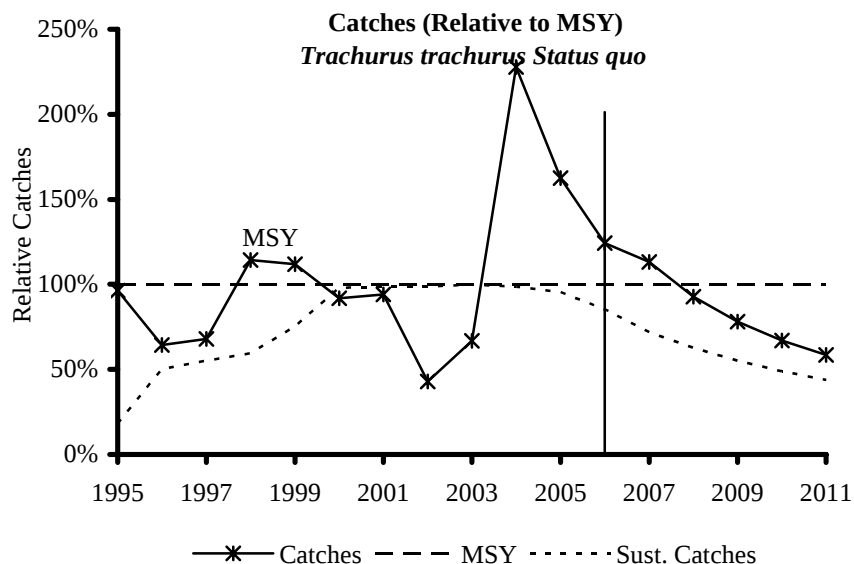


Figure 4.7.1a: Projected trends in catches and abundance of *T. trachurus* – Scenario I (*status quo*)/Prédiction des tendances dans les captures et de l’abondance pour *T. trachurus* – Scénario I (*statu quo*)

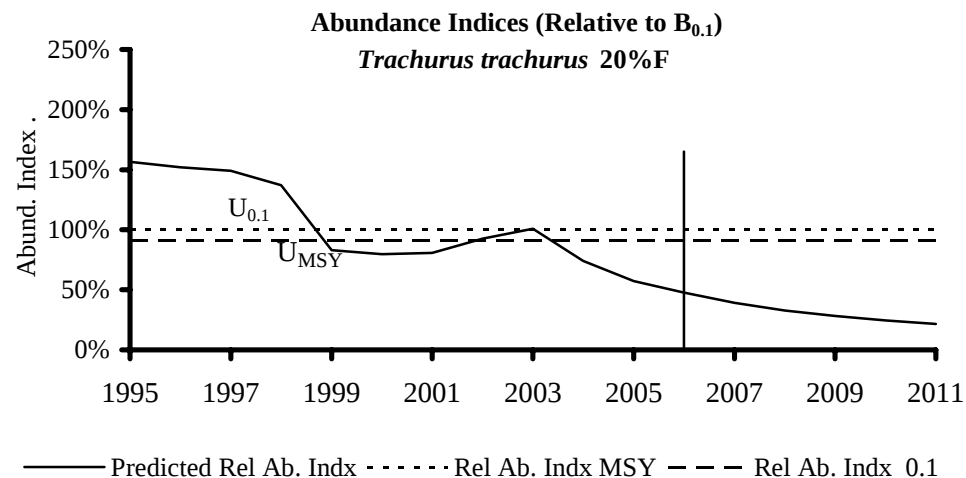
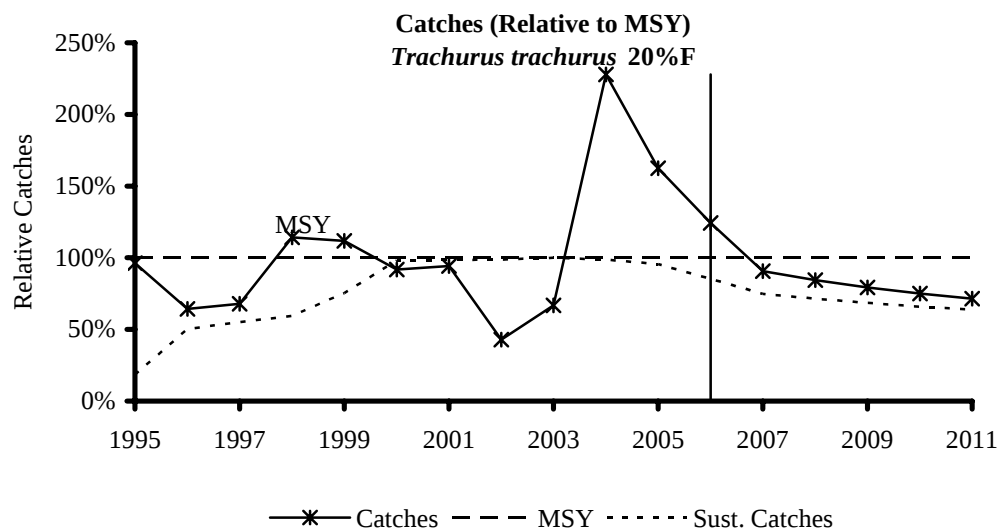
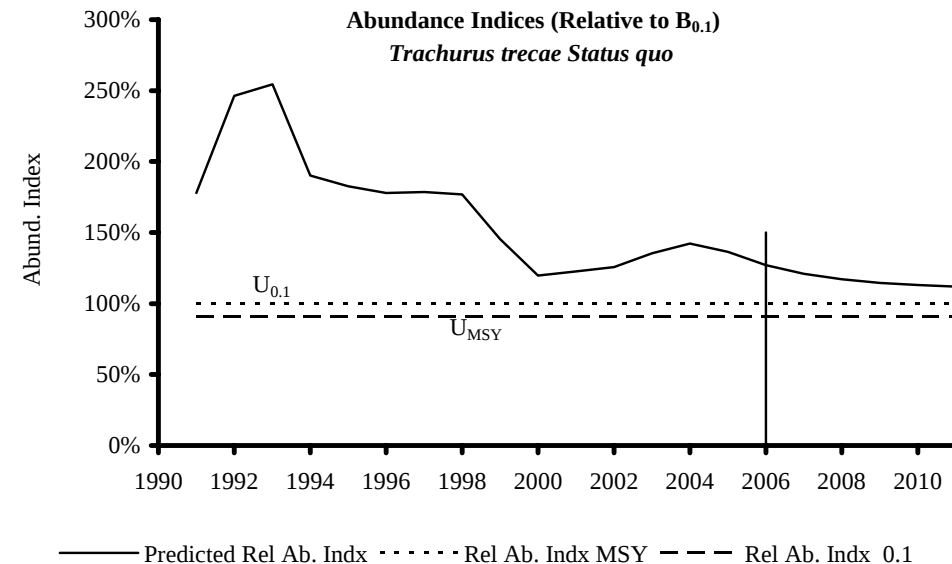
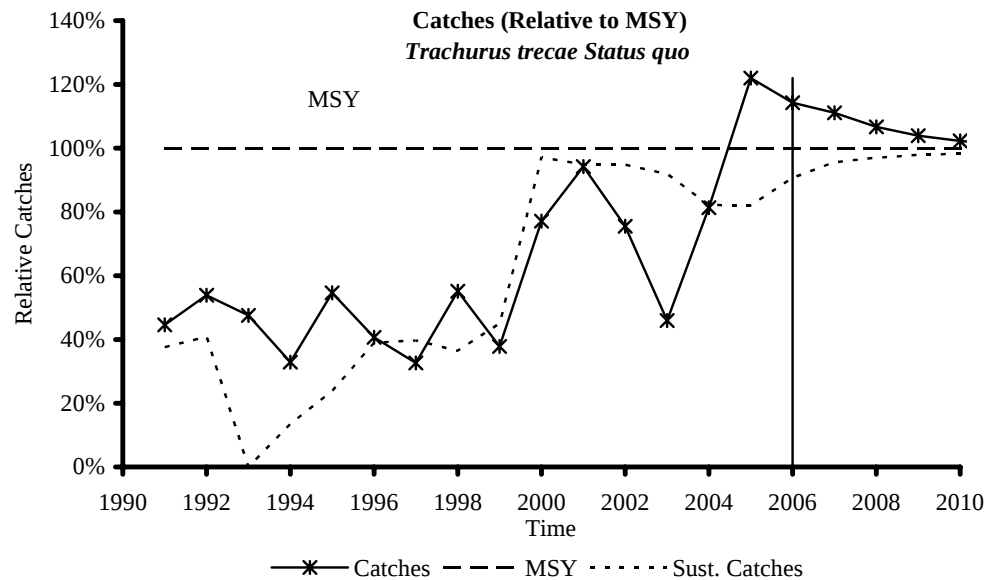


Figure 4.7.1b: Projected trends in catches and abundance of *T. trachurus* – Scenario II (20% decrease in effort)/Projection des tendances de capture et d’abondance de *T. trachurus* – Scénario II (diminution de 20% de l’effort)



Figures 4.7.2a: Projected trends in catches and abundance of *T. trecae* – Scenario I (*status quo*)/Projection des tendances dans les captures et de l’abondance pour *T. trecae* – Scénario I (*statu quo*)

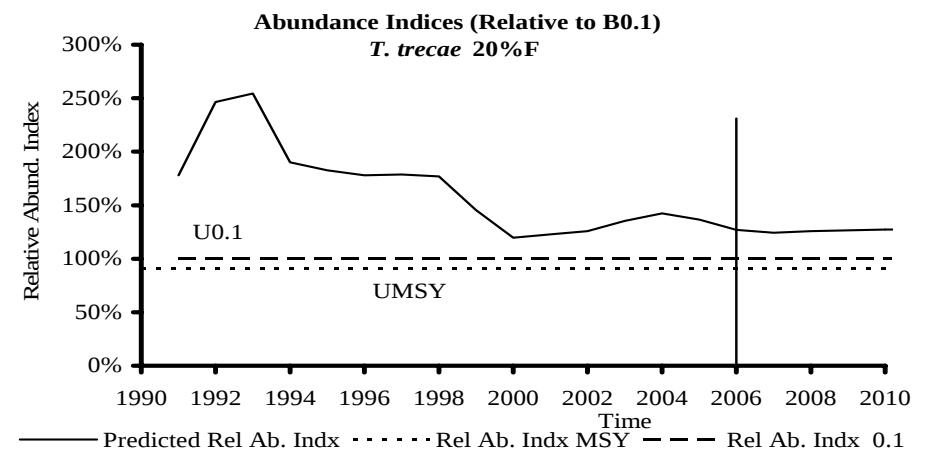
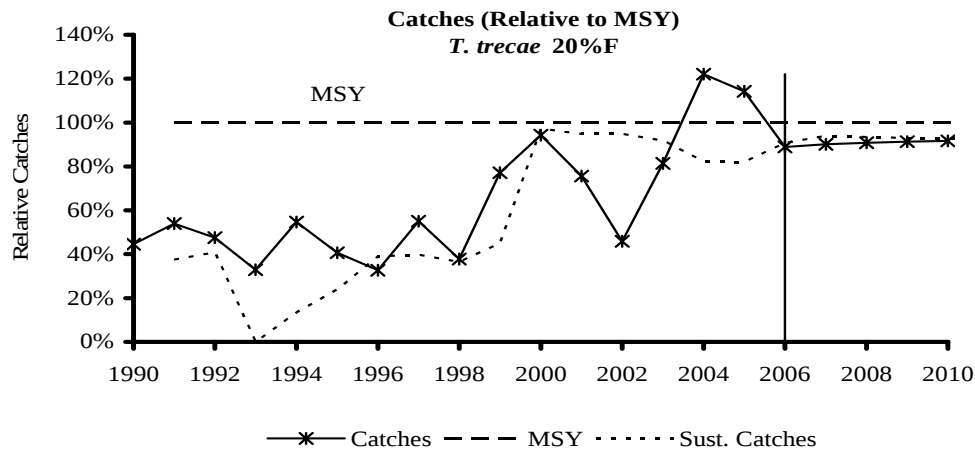


Figure 4.7.2b: Predicted trends in catches and abundance of *T. trecae* – Scenario II (20% decrease in effort)/Projection des tendances de capture et d’abondance de *T. trecae* – Scénario II (diminution de 20% de l’effort)

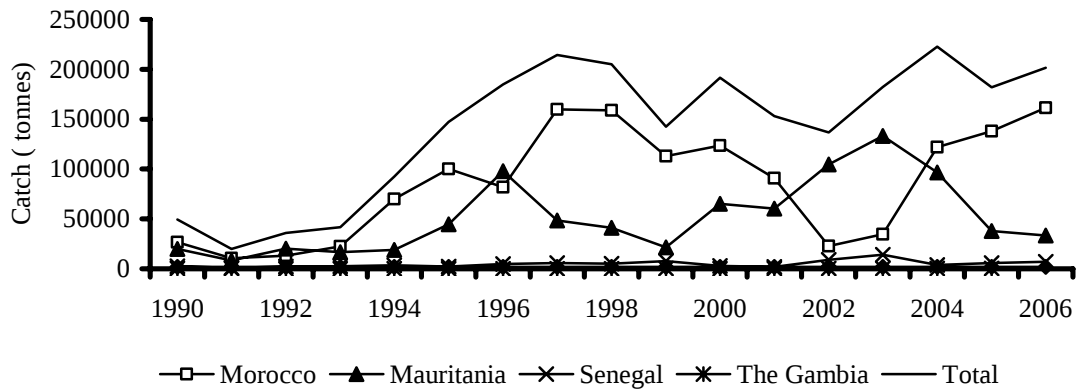
Scomber japonicus

Figure 5.2.1: Total catches (tonnes) of *Scomber japonicus* in the sub-region by species and year (1990–2006)/Captures totales (en tonnes) de *Scomber japonicus* dans la sous-région par espèce et par année (1990–2006)

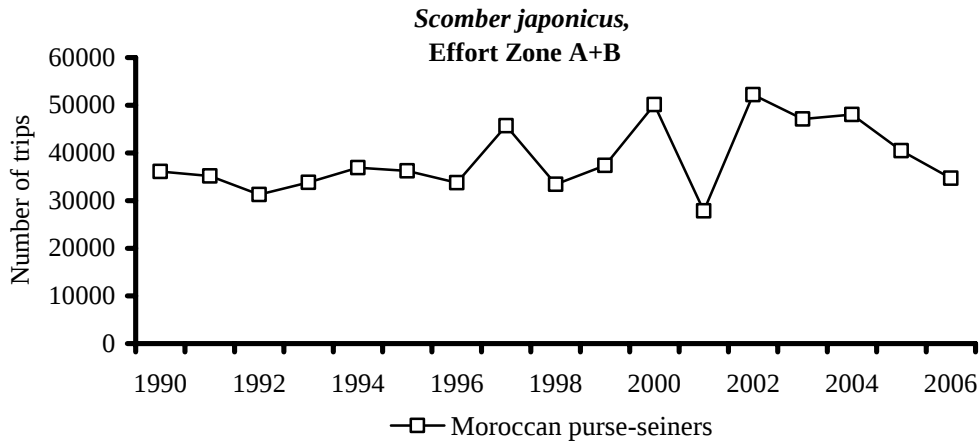


Figure 5.2.2a: Effort in number of trips for *Scomber Japonicus*, by Moroccan purse-seiners in zone (A+B)/Effort en nombre de sorties par senneurs marocains pour *Scomber Japonicus* dans la zone (A+B)

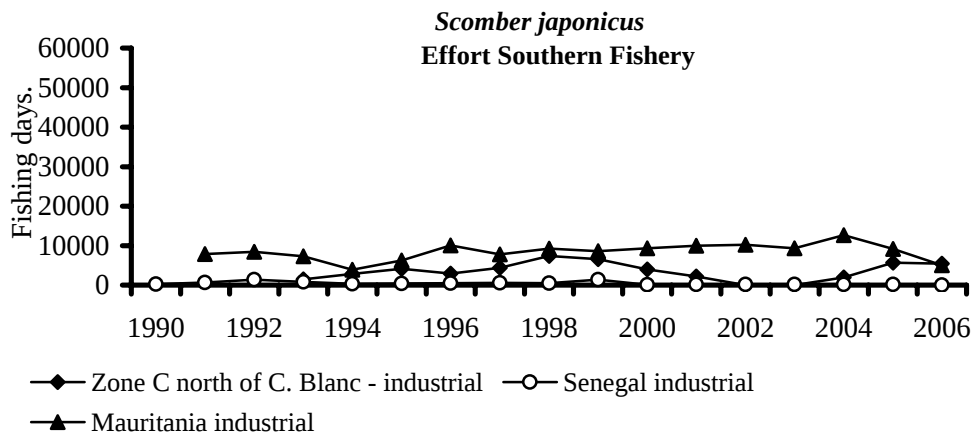


Figure 5.2.2b: Effort (in fishing days) for *Scomber japonicus*, by all fleets in the southern stock/Effort (en jours de pêche) pour *Scomber japonicus* par toutes les flottilles dans le stock Sud

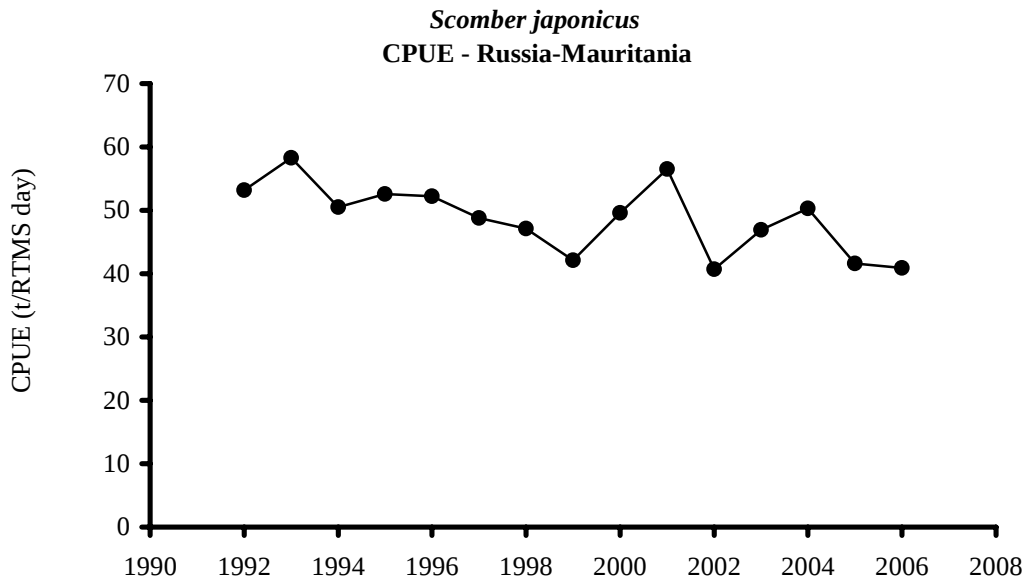
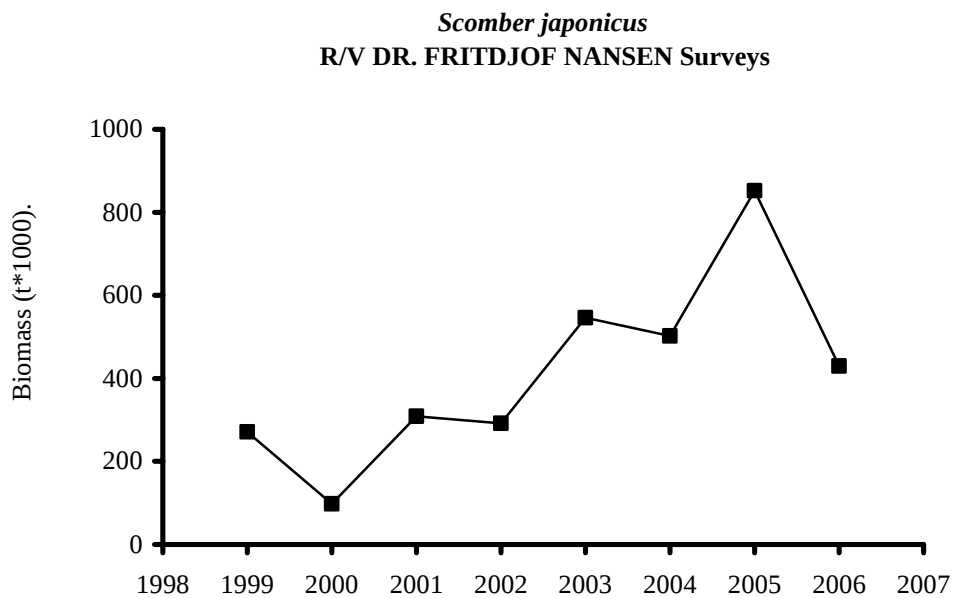


Figure 5.3.1: Standardized CPUE from Russian fleets of *Scomber japonicus*, in Mauritania (tonnes/RTMS day)/CPUE standardisées de la flottille russe de *Scomber japonicus* en Mauritanie (tonnes/jours RTMS)



*: partially estimated by R/V AL AMIR MY ABDELLAH with a correcting multiplicative factor (1,265) after a R/V DR. FRITDJOF NANSEN technical breakdown.

Figure 5.3.2: Biomass estimates of *Scomber japonicus* from the R/V DR. FRITDJOF NANSEN surveys/Estimations de la biomasse de *Scomber japonicus* à partir des campagnes du N/R DR. FRITDJOF NANSEN

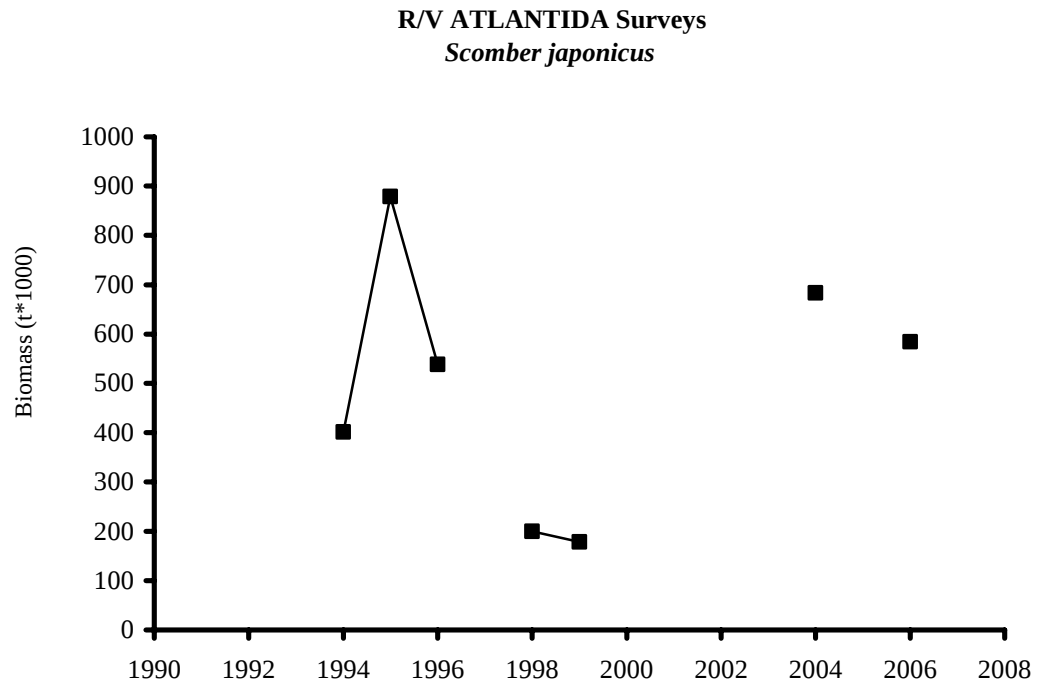


Figure 5.3.3: Biomass estimates of *Scomber japonicus* from the R/V ATLANTIDA surveys/Estimations de la biomasse de *Scomber japonicus* à partir des campagnes du N/R ATLANTIDA

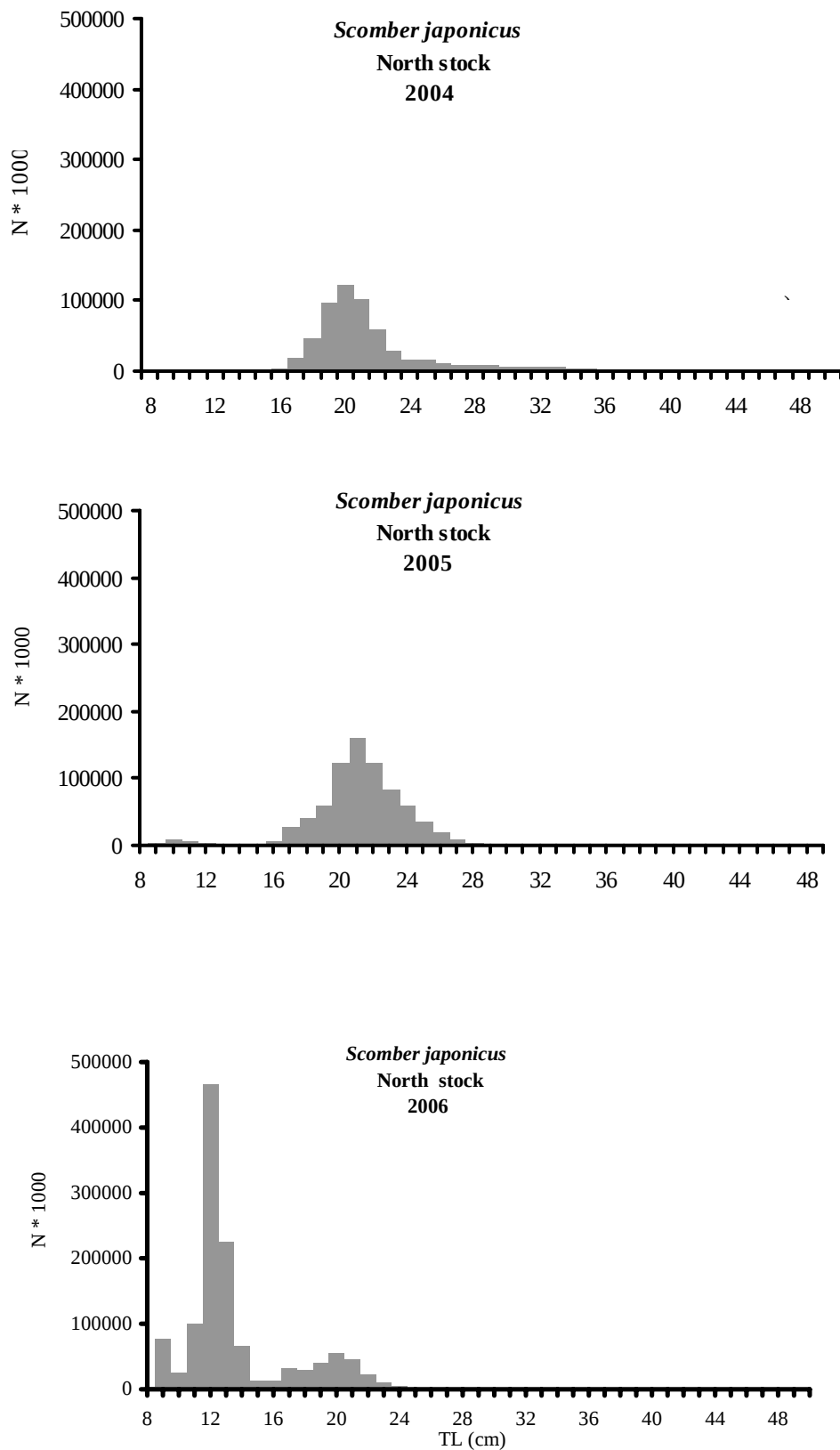


Figure 5.5.1a: Length composition of landings of *Scomber japonicus* in the northern Stock/Composition des tailles dans les débarquements de *Scomber japonicus* dans le stock Nord

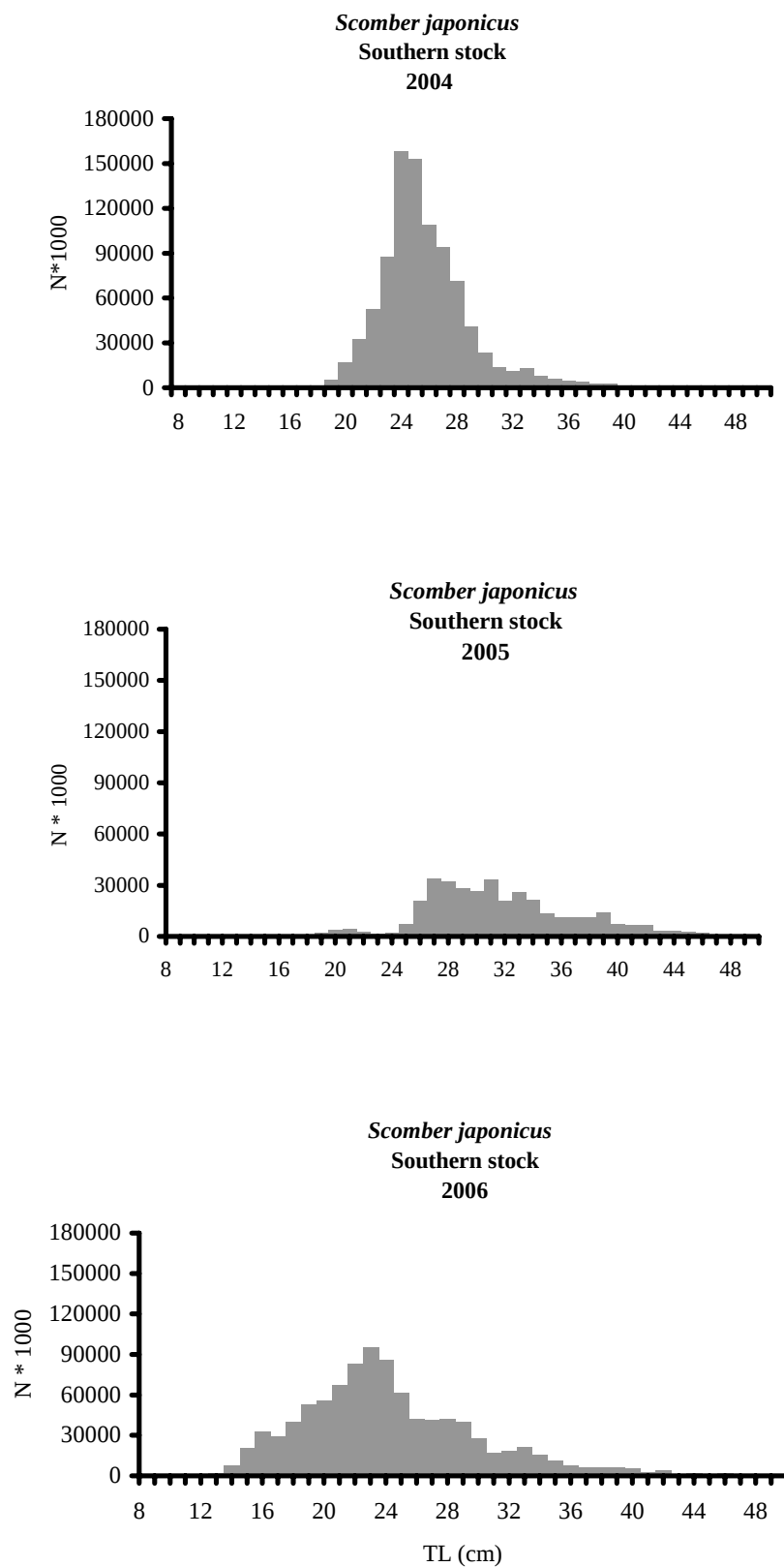


Figure 5.5.1b: Length composition of landings of *Scomber japonicus* in the southern Stock/Composition des tailles dans les débarquements de *Scomber japonicus* dans les pêcheries du stock Sud

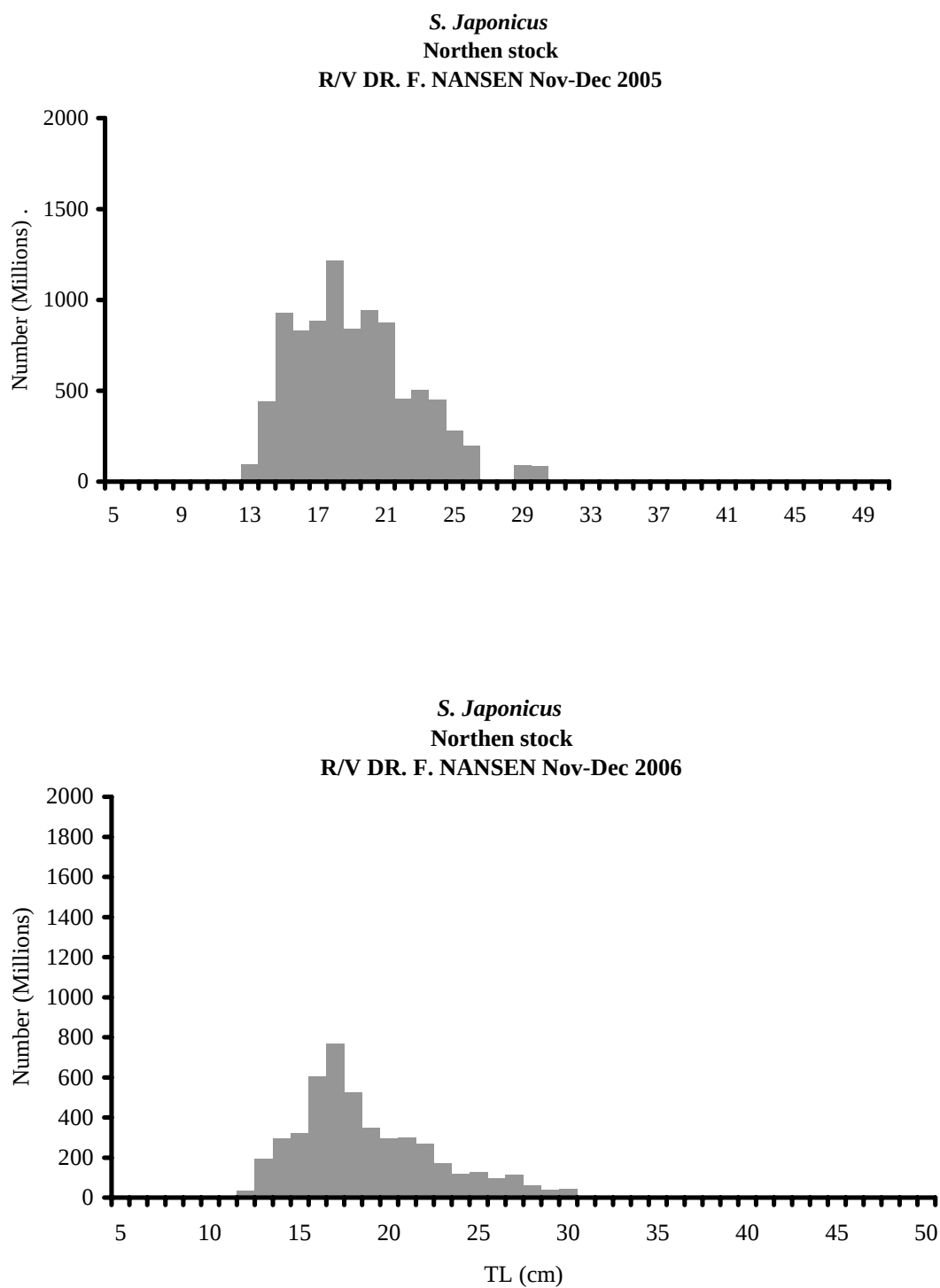
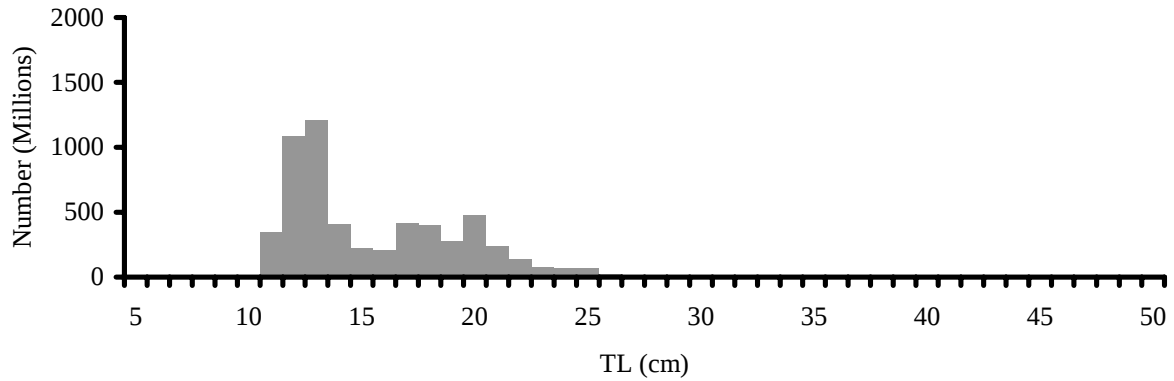


Figure 5.5.2a Length composition of *Scomber japonicus* in the northern Stock (2005–2006), R/V DR. FRIDTJOF NANSEN (in millions of fish)/Composition des tailles pour *Scomber japonicus* dans le stock Nord en 2005-2006, N/R DR. FRIDTJOF NANSEN (en millions de poissons)

S. Japonicus
 Southern stock
 R/V DR. F. NANSEN
 November-December 2005



S. Japonicus
 Southern stock
 R/V DR. F. NANSEN
 November-December 2006

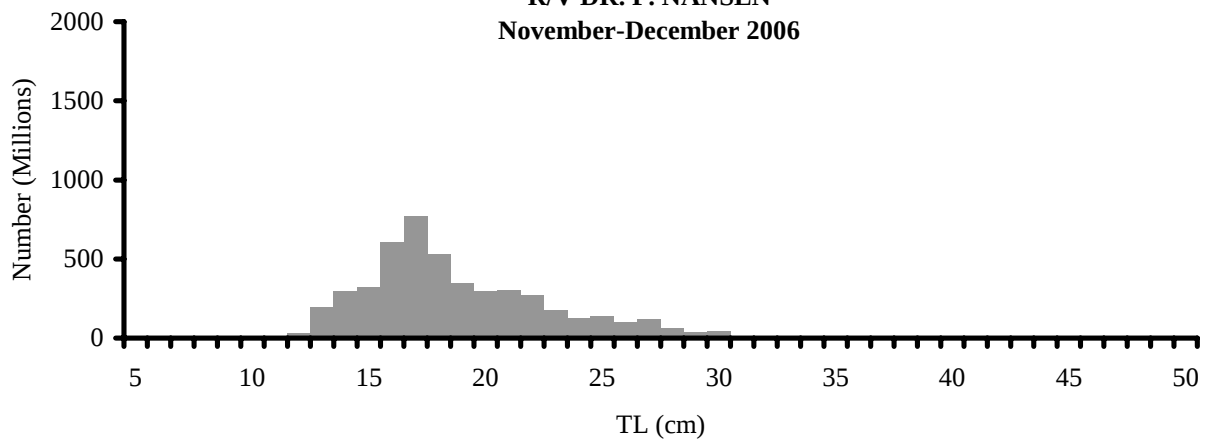


Figure 5.5.2b: Length composition of *Scomber japonicus* in 2005–2006, R/V DR. FRIDTJOF NANSEN (in millions of fish) the southern Stock/Composition des tailles pour *Scomber japonicus* en 2005-2006, N/R DR. FRIDTJOF NANSEN (en millions de poissons) stock Sud

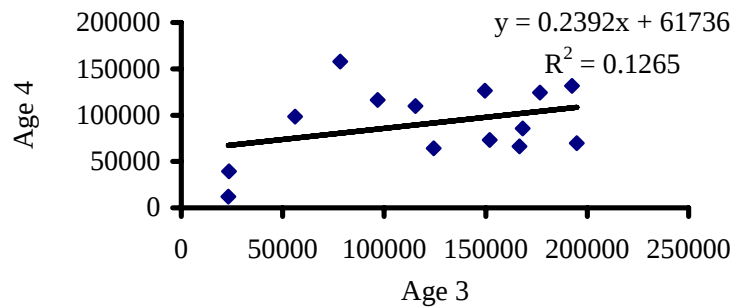
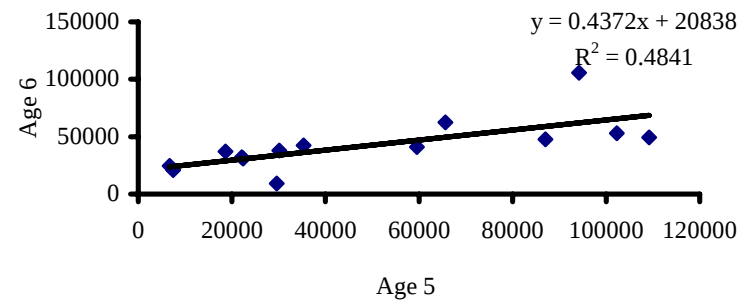
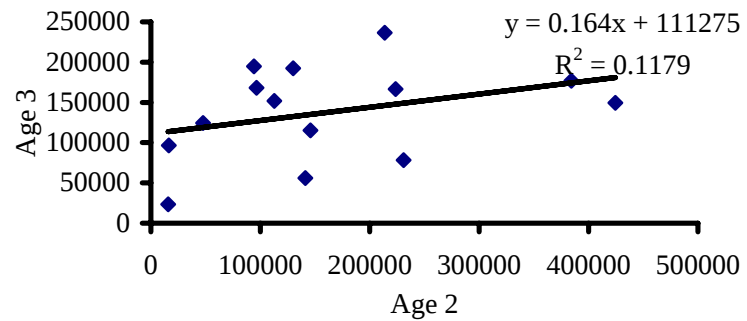
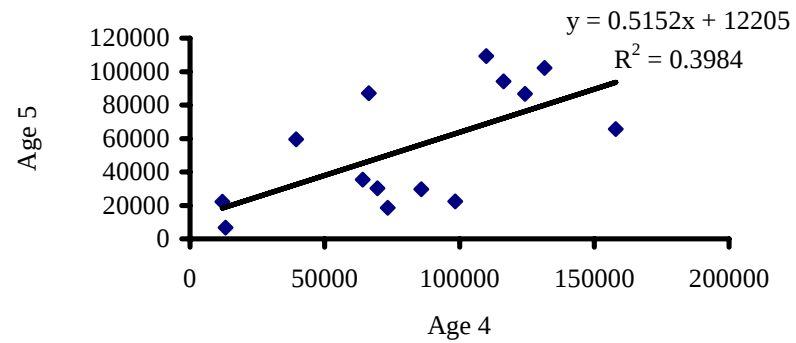
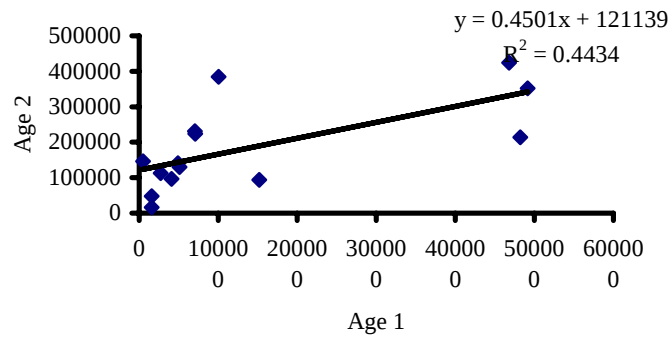


Figure 5.6.1: Exploratory analyses of the data for *Scomber japonicus* (Russian age-length key)/Analyses exploratoires des données pour *Scomber japonicus* (clé âge-longueur russe)

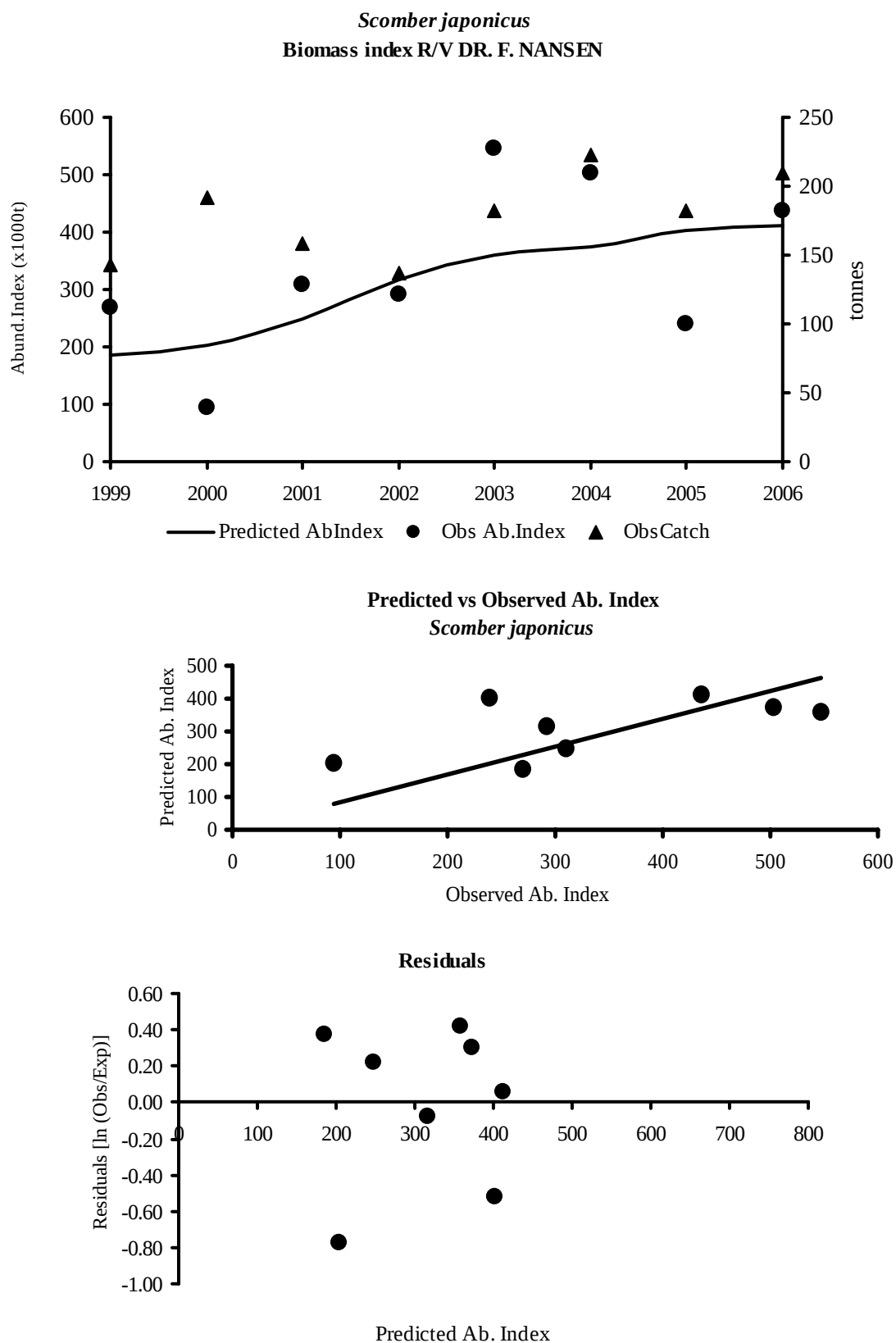
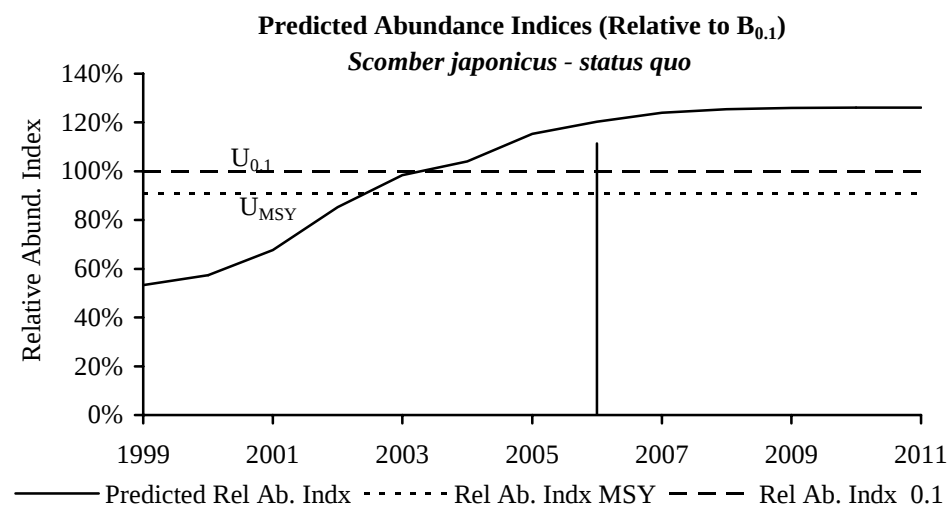
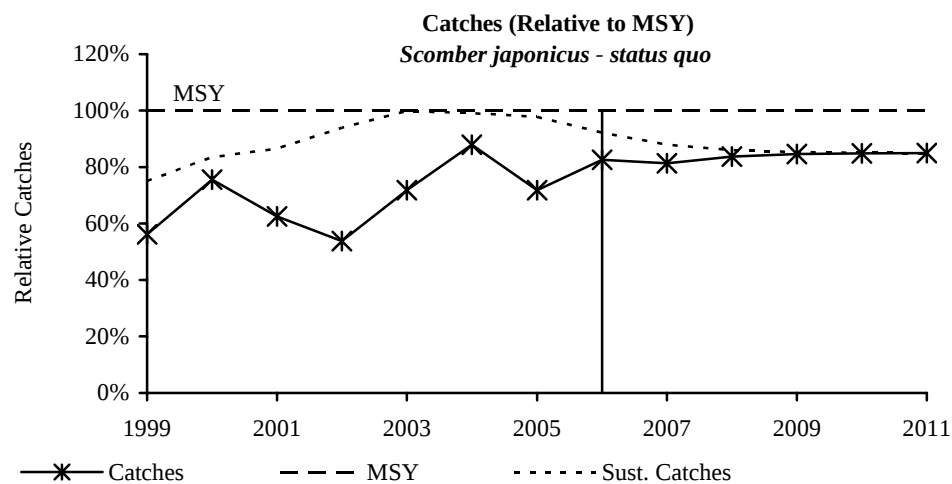


Figure 5.6.3: Observed and predicted abundance indices for *Scomber japonicus* using biomass estimates from R/V DR. FRIDTJOF NANSEN and diagnostics of the model fit/Indices d'abondance observés et prévus pour *Scomber japonicus* en utilisant les estimations de biomasse du N/R DR. FRIDTJOF NANSEN et les diagnostics du modèle



Figures 5.7.1: Predicted trends in catches and abundance – R/V DR. F. NANSEN of *Scomber japonicus* – Scenario I (*status quo*)/Prédictions des tendances des captures et de l’abondance – N/R DR. F. NANSEN pour *Scomber Japonicus* – Scénario I (*statu quo*)

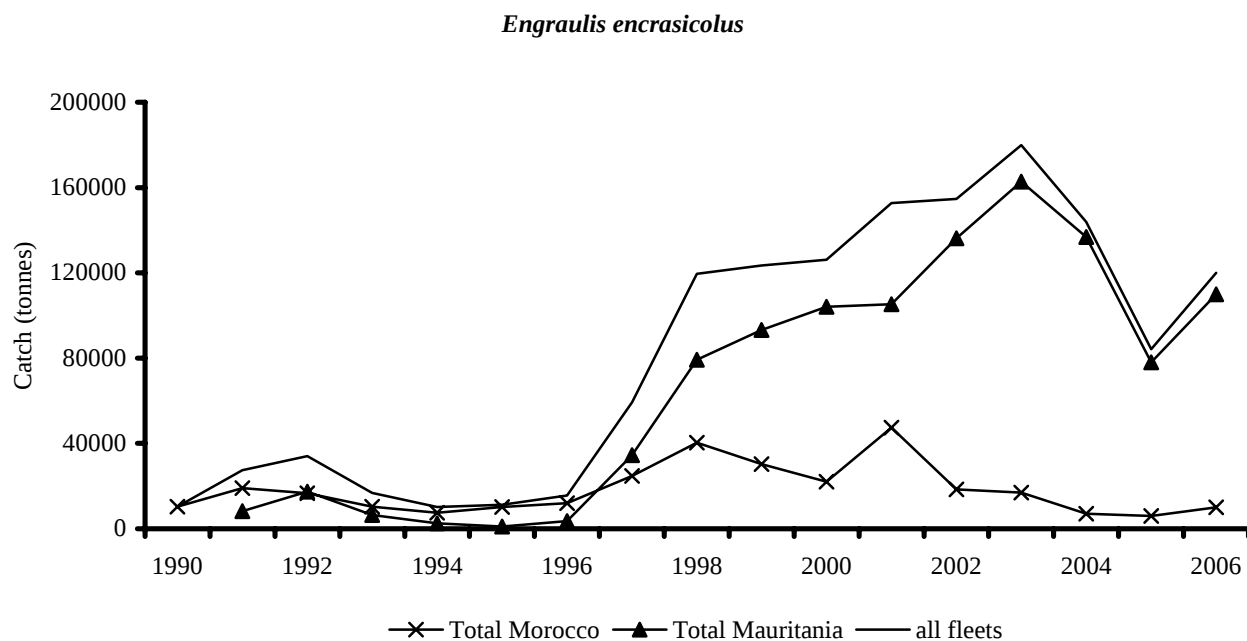


Figure 6.2.1: Total catches (tonnes) of *Engraulis encrasicolus* in the sub-region by country and year (1990–2006)/Captures totales (en tonnes) d'*Engraulis encrasicolus* dans la sous-région par pays et année (1990-2006)

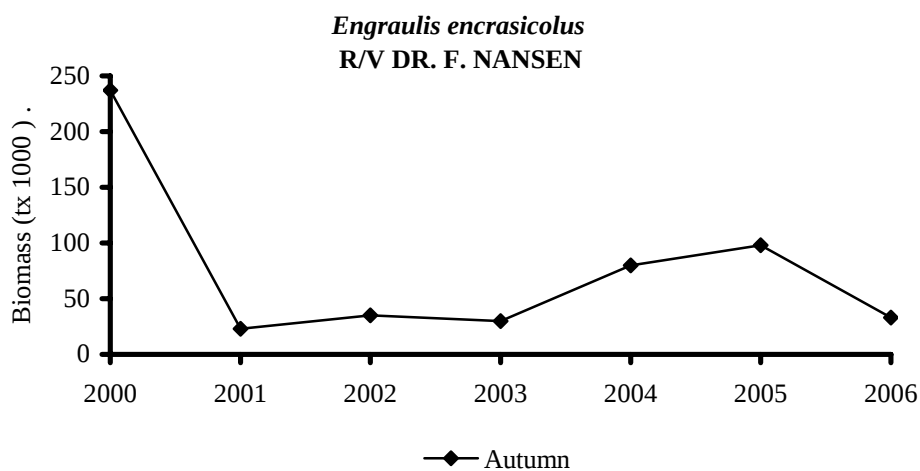


Figure 6.3.1: Biomass estimates of *Engraulis encrasicolus* (2000–2006) for Mauritania, R/V DR. FRIDTJOF NANSEN/Estimations de biomasse d'*Engraulis encrasicolus* (2000-2006) pour la Mauritanie, N/R DR. FRIDTJOF NANSEN

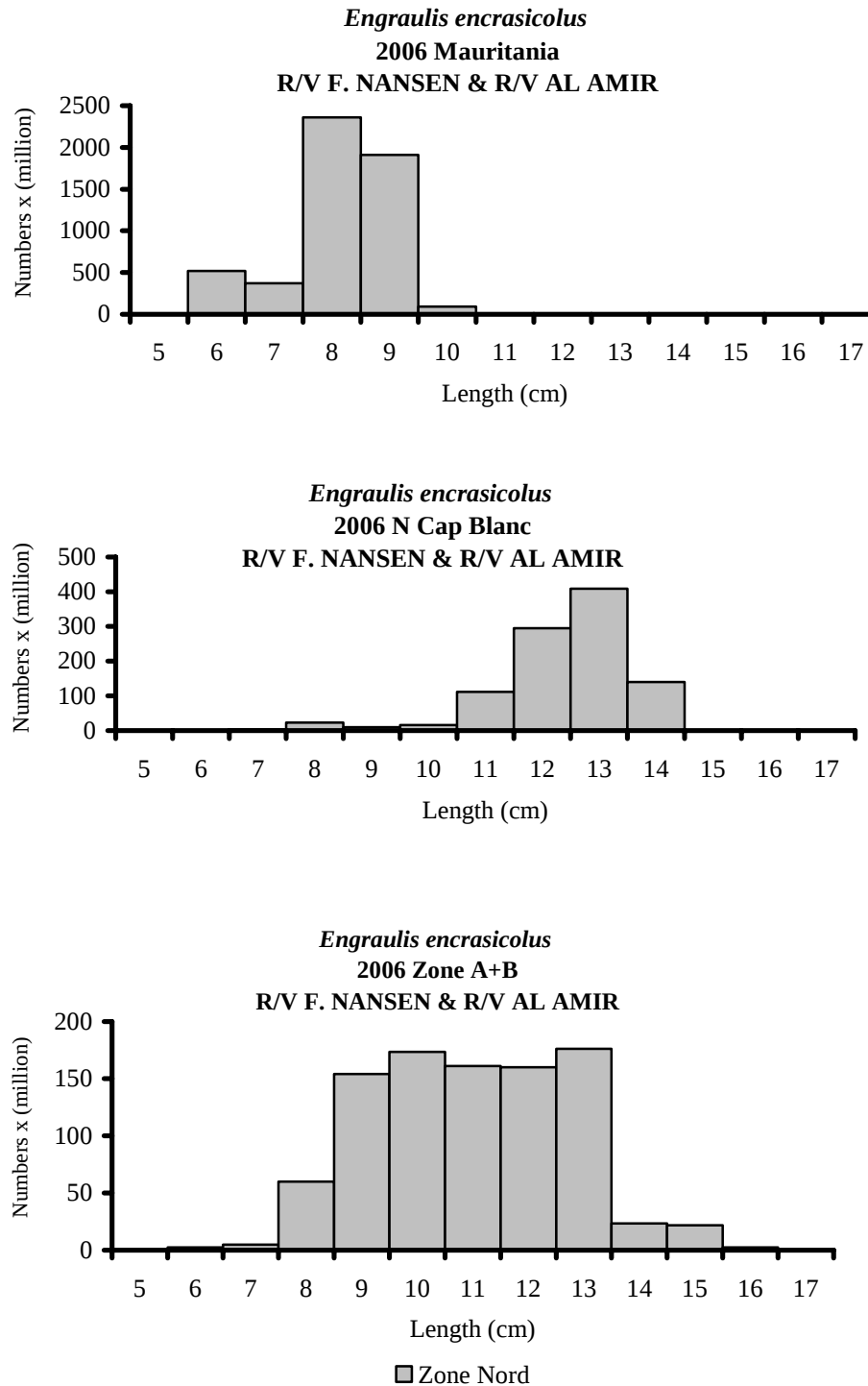


Figure 6.5.1: Weighted length and total number estimates for *Engraulis encrasicolus* in the sub-region in 2006 (R/V DR. FRIDTJOF NANSEN, R/V AL AMIR)/Estimations de la taille et du nombre d'individus pour *Engraulis encrasicolus* dans la sous-région en 2005 (N/R DR. FRIDTJOF NANSEN, N/R AL AWAM, N/R AL AMIR)

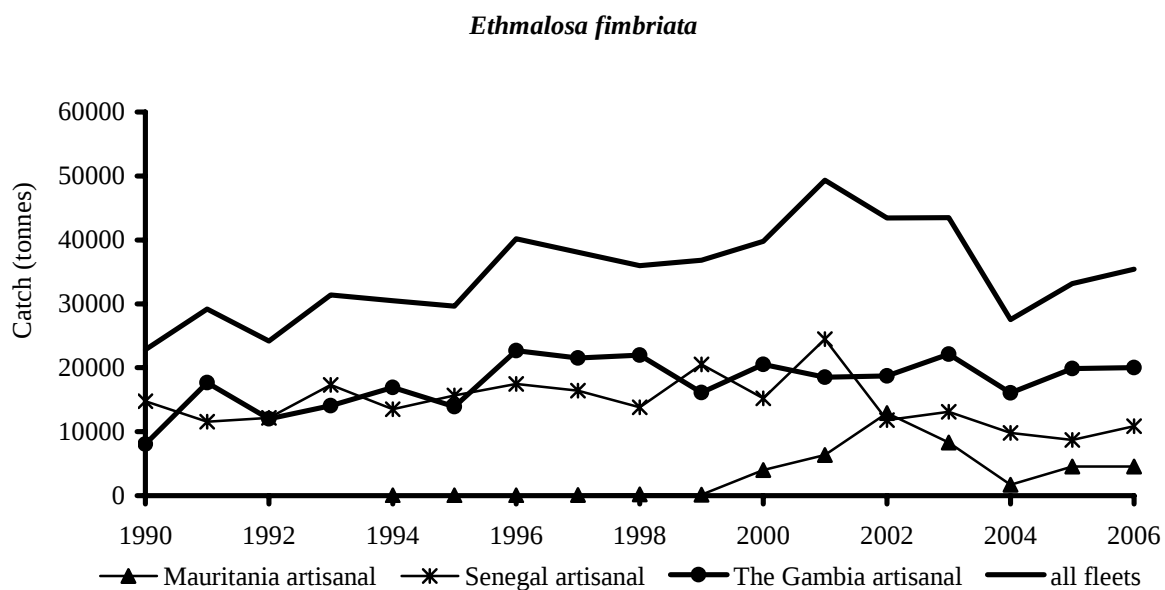


Figure 7.2.1: Catches (tonnes) of *Ethmalosa fimbriata* (1990–2005) by country, fleet and year/Captures (en tonnes) d'*Ethmalosa fimbriata* (1990–2005) par pays, flottille et année

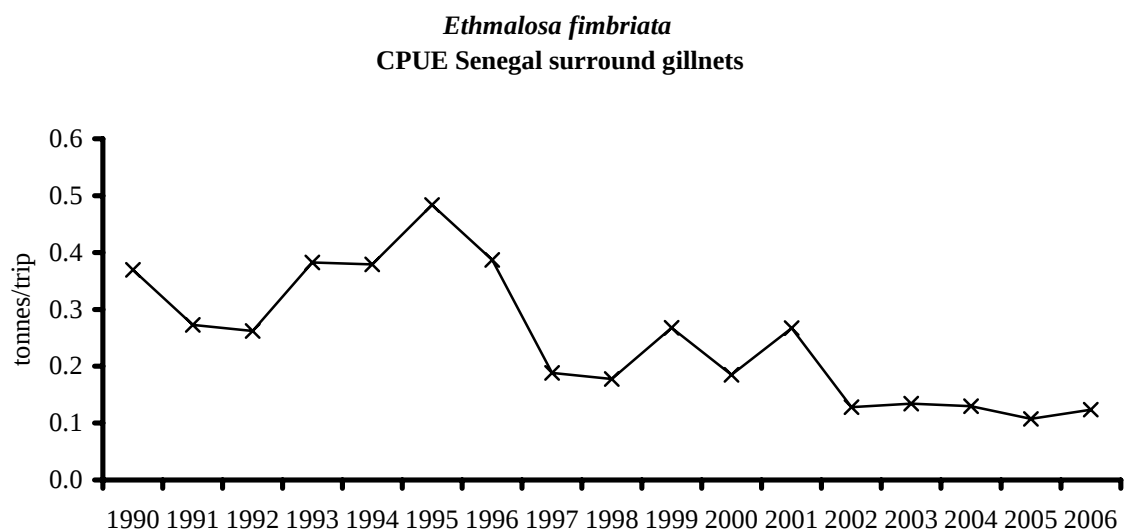


Figure 7.3.1: CPUE (tonnes/trips) of *Ethmalosa fimbriata* (1990–2005) of Senegalese surrounding gillnets/CPUE (tonnes/sorties) d'*Ethmalosa fimbriata* (1990–2005) des filets maillants tournants sénégalais

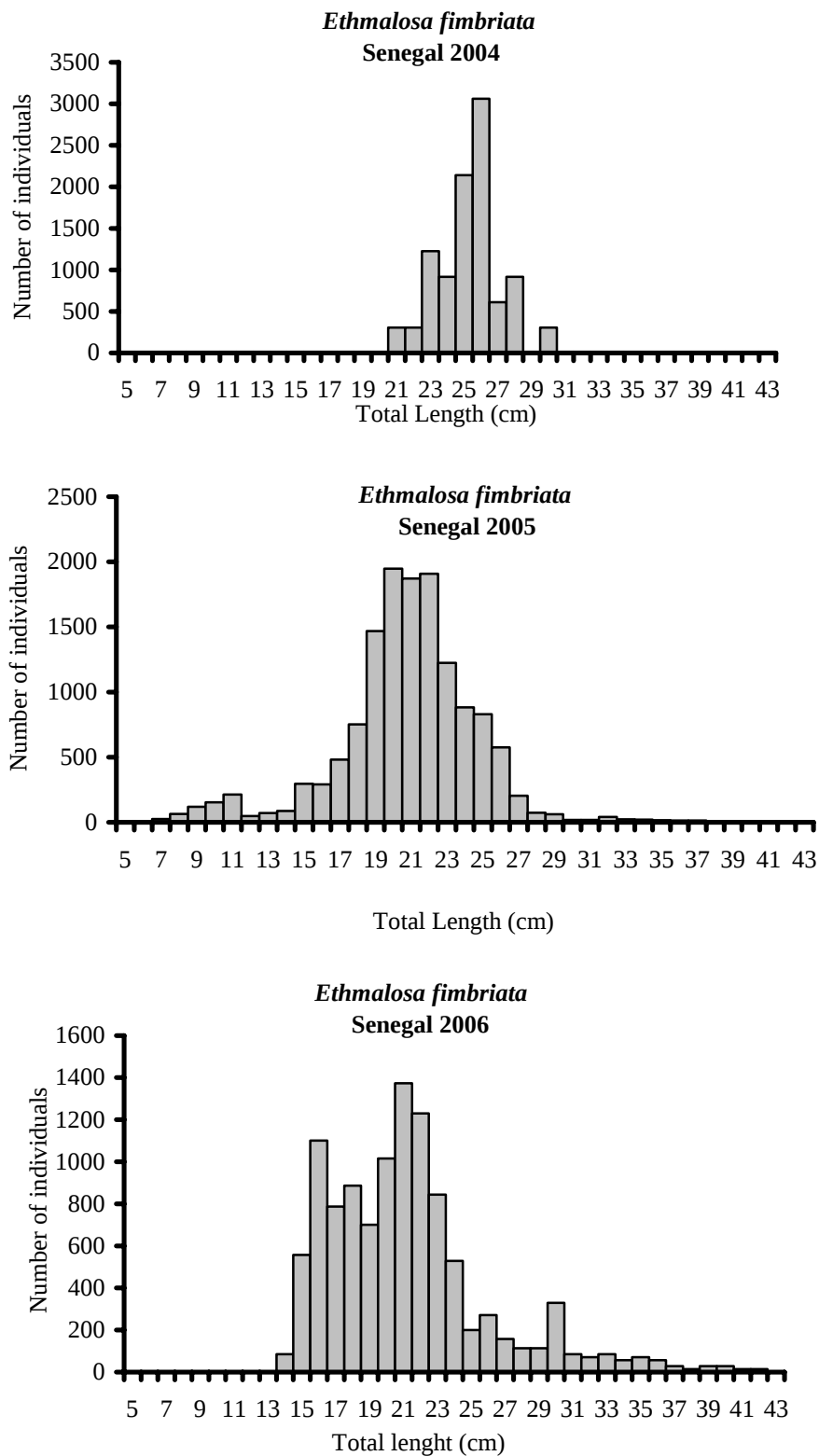


Figure 7.5.1: Length composition of *Ethmalosa fimbriata* in Senegal (2004, 2005 and 2006)/
Composition par taille d'*Ethmalosa fimbriata* au Sénégal (2004, 2005 et 2006)