

# Cruise Operations Database

Data Entered SS/02 Error Checked \_\_\_\_\_ Scientist S.S.

FOCI Cruise \_\_\_\_\_ Station M4-Center Haul \_\_\_\_\_ FOCI Station \_\_\_\_\_ Alt. Station BON001  
(e.g. 4MF99) (e.g. HU45 or FOX058) (e.g. CTD015 or MOC004)

Ships Cruise MF02-05 GMT-Date 5-May-02 GM-Time 2200 Bottom Depth 71 m  
(e.g. MF99-08) (e.g. 20-May-99)

DLat 53 MLat 50.793 °N DLong 168 MLong 53.320 °W

Haul Comments BON001 CTD025

Gear <u>60P0N</u>	Net <u>1</u>	Mesh <u>333</u> um	please see FOCI Field Manual for Gear abbreviations	
<div><b>Performance</b> good <input type="checkbox"/> quest <input type="checkbox"/> fail <input type="checkbox"/> lost <input type="checkbox"/> (explain if not good)</div>	<div><b>Purpose</b> gridpre <input type="checkbox"/> grid <input type="checkbox"/> gridpost <input type="checkbox"/> diel <input type="checkbox"/> drift <input type="checkbox"/> phys <input type="checkbox"/></div>	<div><b>Depth</b> min. <u>0</u> m max. <u>71</u> m  <b>Wire Out</b> min. <u>0</u> m max. <u>105</u> m</div>	<div><b>Flowmeter</b> meter # <u>8990</u> final rev. <u>52542</u> initial rev. <u>52355</u>  Total <u>2187</u></div>	<div><b>Tow Time</b> mess. net 0 _____ at depth <u>3:02</u> haul in _____ mess. net 1 _____  Total <u>8:36</u></div>

**Samples Collected**  
circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

302 104  
61m

Absorb <input type="checkbox"/>	ChLAM <input type="checkbox"/>	J-Length <input type="checkbox"/>	Lugols <input type="checkbox"/>	QTowF <input type="checkbox"/>	fish removed Y / N
ADCP <input type="checkbox"/>	Chlor <input type="checkbox"/>	J-Oto <input type="checkbox"/>	Merist <input type="checkbox"/>	QTowS <input type="checkbox"/>	TSG <input type="checkbox"/>
A-Genet <input type="checkbox"/>	CTD <input type="checkbox"/>	J-Wght <input type="checkbox"/>	MZ <input type="checkbox"/>	RCountE <input type="checkbox"/>	VideoNet <input type="checkbox"/>
A-Gut <input type="checkbox"/>	Deploy <input type="checkbox"/>	L-Bioch <input type="checkbox"/>	NetFluor <input type="checkbox"/>	RCountJ <input type="checkbox"/>	XBT <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	L-Genet <input type="checkbox"/>	Nut <input type="checkbox"/>	RCountL <input type="checkbox"/>	sample <input type="checkbox"/>
A-Oto <input type="checkbox"/>	EBKG <input type="checkbox"/>	L-Gut <input type="checkbox"/>	Ovary <input type="checkbox"/>	Recovery <input type="checkbox"/>	sample <input type="checkbox"/>
Asound <input type="checkbox"/>	EK500 <input type="checkbox"/>	L-Hist <input type="checkbox"/>	PAR <input type="checkbox"/>	ScanMar <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	Fluor <input type="checkbox"/>	Live <input type="checkbox"/>	PhytoF <input type="checkbox"/>	Shrink <input type="checkbox"/>	sample <input type="checkbox"/>
Brain <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Musc <input type="checkbox"/>	POC <input type="checkbox"/>	SSF <input type="checkbox"/>	sample <input type="checkbox"/>
CAT <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Oto <input type="checkbox"/>	Pred <input type="checkbox"/>	Strip <input type="checkbox"/>	sample <input type="checkbox"/>

## CTDB Bottle

### Sample info

please record all samples collected (each bottle should have its own record)

Depth	Chlor	Nut	MZ	other	Depth	Chlor	Nut	MZ	other
m	volume	bottle #	x	x	m	volume	bottle #	x	x
m	volume	bottle #	x	x	m	volume	bottle #	x	x
m	volume	bottle #	x	x	m	volume	bottle #	x	x
m	volume	bottle #	x	x	m	volume	bottle #	x	x
m	volume	bottle #	x	x	m	volume	bottle #	x	x
m	volume	bottle #	x	x	m	volume	bottle #	x	x

Gear 20B0N Net 1 Mesh 153 um please see FOCI Field Manual for Gear abbreviations

<div><b>Performance</b> good <input type="checkbox"/> quest <input type="checkbox"/> fail <input type="checkbox"/> lost <input type="checkbox"/> (explain if not good)</div>	<div><b>Purpose</b> gridpre <input type="checkbox"/> grid <input type="checkbox"/> gridpost <input type="checkbox"/> diel <input type="checkbox"/> drift <input type="checkbox"/> phys <input type="checkbox"/></div>	<div><b>Depth</b> min. <u>0</u> m max. _____ m  <b>Wire Out</b> min. <u>0</u> m max. _____ m</div>	<div><b>Flowmeter</b> meter # <u>3107</u> final rev. <u>75032</u> initial rev. <u>73150</u>  Total <u>1882</u></div>	<div><b>Tow Time</b> mess. net 1 _____ at depth _____ haul in _____ mess. net 2 _____  Total _____</div>
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## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

A-Genet <input type="checkbox"/>	Brain <input type="checkbox"/>	J-Length <input type="checkbox"/>	L-Gut <input type="checkbox"/>	QTowF <input type="checkbox"/>	fish removed Y / N
A-Gut <input type="checkbox"/>	CAT <input type="checkbox"/>	J-Oto <input type="checkbox"/>	L-Hist <input type="checkbox"/>	QTowS <input type="checkbox"/>	RCountL <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	J-Wght <input type="checkbox"/>	L-Musc <input type="checkbox"/>	Pred <input type="checkbox"/>	Shrink <input type="checkbox"/>
A-Oto <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Bioch <input type="checkbox"/>	L-Oto <input type="checkbox"/>	RCountE <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Genet <input type="checkbox"/>	Merist <input type="checkbox"/>	RCountJ <input type="checkbox"/>	sample <input type="checkbox"/>

Gear \_\_\_\_\_

Net \_\_\_\_\_

Mesh \_\_\_\_\_ um

please see FOCI Field Manual for Gear abbreviations

**Performance**  
good ☐  
quest ☐  
fail ☐  
lost ☐  
(explain if not good)

**Purpose**  
gridpre ☐  
grid ☐  
gridpost ☐  
diel ☐  
drift ☐  
phys ☐  
plinksurv ☐  
juvsurv ☐  
adult ☐  
gear ☐  
other ☐  
(explain)

**Depth**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m  
**Wire Out**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

**Flowmeter**  
meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
**Total** \_\_\_\_\_

**Tow Time**  
mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
**Total** \_\_\_\_\_

A-Genet ☐  
A-Gut ☐  
A-Length ☐  
A-Oto ☐  
A-Wght ☐

Brain ☐  
CAT ☐  
Discard ☒  
J-Genet ☐  
J-Gut ☐

J-Length ☐  
L-Oto ☐  
L-Wght ☐  
L-Bioch ☐  
L-Genet ☐

QToWF ☐  
QTows ☐  
Pred ☐  
RCountE ☐  
RCountJ ☐  
fish removed Y/N ☐  
RCountL ☐  
Shrink ☐  
sample ☐  
sample ☐  
sample ☐

Gear 60864

Net 2

Mesh 333 um

please see FOCI Field Manual for Gear abbreviations

**Performance**  
good ☐  
quest ☐  
fail ☐  
lost ☐  
(explain if not good)

**Purpose**  
gridpre ☐  
grid ☐  
gridpost ☐  
diel ☐  
drift ☐  
phys ☐  
plinksurv ☐  
juvsurv ☐  
adult ☐  
gear ☐  
other ☐  
(explain)

**Depth**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m  
**Wire Out**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

**Flowmeter**  
meter # 4269  
final rev. 78080  
initial rev. 75936  
**Total** 2144

**Tow Time**  
mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
**Total** \_\_\_\_\_

A-Genet ☐  
A-Gut ☐  
A-Length ☐  
A-Oto ☐  
A-Wght ☐

Brain ☐  
CAT ☐  
Discard ☒  
J-Genet ☐  
J-Gut ☐

J-Length ☐  
L-Oto ☐  
L-Wght ☐  
L-Bioch ☐  
L-Genet ☐

QToWF ☐  
QTows ☐  
Pred ☐  
RCountE ☐  
RCountJ ☐  
fish removed Y/N ☐  
RCountL ☐  
Shrink ☐  
sample ☐  
sample ☐  
sample ☐

Gear \_\_\_\_\_

Net \_\_\_\_\_

Mesh \_\_\_\_\_ um

please see FOCI Field Manual for Gear abbreviations

**Performance**  
good ☐  
quest ☐  
fail ☐  
lost ☐  
(explain if not good)

**Purpose**  
gridpre ☐  
grid ☐  
gridpost ☐  
diel ☐  
drift ☐  
phys ☐  
plinksurv ☐  
juvsurv ☐  
adult ☐  
gear ☐  
other ☐  
(explain)

**Depth**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m  
**Wire Out**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

**Flowmeter**  
meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
**Total** \_\_\_\_\_

**Tow Time**  
**Total** \_\_\_\_\_

A-Genet ☐  
A-Gut ☐  
A-Length ☐  
A-Oto ☐  
A-Wght ☐

Brain ☐  
CAT ☐  
Discard ☒  
J-Genet ☐  
J-Gut ☐

J-Length ☐  
L-Oto ☐  
J-Wght ☐  
L-Bioch ☐  
L-Genet ☐

QToWF ☐  
QTows ☐  
Pred ☐  
RCountE ☐  
RCountJ ☐  
fish removed Y/N ☐  
RCountL ☐  
Shrink ☐  
sample ☐  
sample ☐  
sample ☐

Gear 20854

Net 2

Mesh 153 um

please see FOCI Field Manual for Gear abbreviations

**Performance**  
good ☐  
quest ☐  
fail ☐  
lost ☐  
(explain if not good)

**Purpose**  
gridpre ☐  
grid ☐  
gridpost ☐  
diel ☐  
drift ☐  
phys ☐  
plinksurv ☐  
juvsurv ☐  
adult ☐  
gear ☐  
other ☐  
(explain)

**Depth**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m  
**Wire Out**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

**Flowmeter**  
meter # 9851  
final rev. 38538  
initial rev. 36680  
**Total** 1858

**Tow Time**  
**Total** \_\_\_\_\_

A-Genet ☐  
A-Gut ☐  
A-Length ☐  
A-Oto ☐  
A-Wght ☐

Brain ☐  
CAT ☐  
Discard ☒  
J-Genet ☐  
J-Gut ☐

J-Length ☐  
L-Oto ☐  
L-Wght ☐  
L-Bioch ☐  
L-Genet ☐

QToWF ☐  
QTows ☐  
Pred ☐  
RCountE ☐  
RCountJ ☐  
fish removed Y/N ☐  
RCountL ☐  
Shrink ☐  
sample ☐  
sample ☐  
sample ☐

# Cruise Operations Database

FOCI Cruise (e.g. 4MF99) Station M4 South Haul 1 FOCI Station            Alt. Station BON002  
(e.g. HU45 or FOX058)

Ships Cruise MF02-05 GMT-Date 5 May 02 GM-Time 2351 Bottom Depth 70 m  
(e.g. MF99-08)

DLR 57 MLat 39.343 °N DLong 169 MLong 91.303 °W

Haul Comments CTD026

Gear <u>LOBON</u>	Net <u>1</u>	Mesh <u>333</u>	um	please see FOCI Field Manual for Gear abbreviations	
<div><b>Performance</b> good <input type="checkbox"/> quest <input type="checkbox"/> fail <input type="checkbox"/> lost <input type="checkbox"/> <i>(explain if not good)</i></div>	<div><b>Purpose</b> gridpre <input type="checkbox"/> grid <input type="checkbox"/> gridpost <input type="checkbox"/> diel <input type="checkbox"/> drift <input type="checkbox"/> phys <input type="checkbox"/></div>	<div><b>Depth</b> min. <u>0</u> m max. <u>61</u> m  <b>Wire Out</b> min. <u>0</u> m max. <u>84</u> m</div>	<div><b>Flowmeter</b> meter # <u>8990</u> final rev. <u>54013</u> initial rev. <u>52542</u>  <b>Total</b> <u>1471</u></div>	<div><b>Tow Time</b> mess. net 0 <input type="checkbox"/> at depth <u>~2:39</u> haul in <input type="checkbox"/> mess. net 1 <input type="checkbox"/>  <b>Total</b> <u>6:43</u></div>	

**Samples Collected**  
circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

Absorb <input type="checkbox"/>	ChLAM <input type="checkbox"/>	J-Length <input type="checkbox"/>	Lugols <input type="checkbox"/>	QTowF <input type="checkbox"/>	fish removed Y / N
ADCP <input type="checkbox"/>	Chlor <input type="checkbox"/>	J-Oto <input type="checkbox"/>	Merist <input type="checkbox"/>	QTowS <input type="checkbox"/>	TSG <input type="checkbox"/>
A-Genet <input type="checkbox"/>	CTD <input type="checkbox"/>	J-Wght <input type="checkbox"/>	MZ <input type="checkbox"/>	RCountE <input type="checkbox"/>	VideoNet <input type="checkbox"/>
A-Gut <input type="checkbox"/>	Deploy <input type="checkbox"/>	L-Bloch <input type="checkbox"/>	NetFluor <input type="checkbox"/>	RCountJ <input type="checkbox"/>	XBT <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	L-Genet <input type="checkbox"/>	Nut <input type="checkbox"/>	RCountL <input type="checkbox"/>	sample <input type="checkbox"/>
A-Oto <input type="checkbox"/>	EBKG <input type="checkbox"/>	L-Gut <input type="checkbox"/>	Ovary <input type="checkbox"/>	Recovery <input type="checkbox"/>	sample <input type="checkbox"/>
Asound <input type="checkbox"/>	EK500 <input type="checkbox"/>	L-Hist <input type="checkbox"/>	PAR <input type="checkbox"/>	ScanMar <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	Fluor <input type="checkbox"/>	Live <input type="checkbox"/>	PhytoF <input type="checkbox"/>	Shrink <input type="checkbox"/>	sample <input type="checkbox"/>
Brain <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Musc <input type="checkbox"/>	POC <input type="checkbox"/>	SSF <input type="checkbox"/>	sample <input type="checkbox"/>
CAT <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Oto <input type="checkbox"/>	Pred <input type="checkbox"/>	Strip <input type="checkbox"/>	sample <input type="checkbox"/>

## CTDB Bottle

**Sample info**  
please record all  
samples collected  
(each bottle should  
have its own record)

Depth	Chlor	Nut	MZ	other	other
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Depth	Chlor	Nut	MZ	other	other
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Gear <u>LOBON</u>	Net <u>1</u>	Mesh <u>153</u>	um	please see FOCI Field Manual for Gear abbreviations	
<div><b>Performance</b> good <input type="checkbox"/> quest <input type="checkbox"/> fail <input type="checkbox"/> lost <input type="checkbox"/> <i>(explain if not good)</i></div>	<div><b>Purpose</b> gridpre <input type="checkbox"/> grid <input type="checkbox"/> gridpost <input type="checkbox"/> diel <input type="checkbox"/> drift <input type="checkbox"/> phys <input type="checkbox"/></div>	<div><b>Depth</b> min. <u>          </u> m max. <u>          </u> m  <b>Wire Out</b> min. <u>          </u> m max. <u>          </u> m</div>	<div><b>Flowmeter</b> meter # <u>3103</u> final rev. <u>16336</u> initial rev. <u>35032</u>  <b>Total</b> <u>1344</u></div>	<div><b>Tow Time</b> mess. net 1 <input type="checkbox"/> at depth <u>          </u> haul in <u>          </u> mess. net 2 <input type="checkbox"/>  <b>Total</b> <u>          </u></div>	

## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

A-Genet <input type="checkbox"/>	Brain <input type="checkbox"/>	J-Length <input type="checkbox"/>	L-Gut <input type="checkbox"/>	QTowF <input type="checkbox"/>	fish removed Y / N
A-Gut <input type="checkbox"/>	CAT <input type="checkbox"/>	J-Oto <input type="checkbox"/>	L-Hist <input type="checkbox"/>	QTowS <input type="checkbox"/>	RCountL <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	J-Wght <input type="checkbox"/>	L-Musc <input type="checkbox"/>	Pred <input type="checkbox"/>	Shrink <input type="checkbox"/>
A-Oto <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Bloch <input type="checkbox"/>	L-Oto <input type="checkbox"/>	RCountE <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Genet <input type="checkbox"/>	Merist <input type="checkbox"/>	RCountJ <input type="checkbox"/>	sample <input type="checkbox"/>

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

A-Genet

☐

A-Gut

☐

A-Length

☐

A-Oto

☐

A-Wght

☐

Brain

☐

CAT

☐

Discard

☒

J-Genet

☐

J-Gut

☐

J-Length

☐

L-Oto

☐

L-Wght

☐

L-Bioch

☐

L-Genet

☐

L-Gut

☐

L-Hist

☐

L-Musc

☐

L-Oto

☐

Merist

☐

QTowF

☐

QTowS

☐

Pred

☐

RCountE

☐

RCountJ

☐

fish removed

Y / N

RCountL

☐

Shrink

☐

sample

☐

sample

☐

Gear

\_\_\_\_\_

Net

\_\_\_\_\_

Mesh

\_\_\_\_\_

um

please see FOCI Field Manual for Gear abbreviations

Gear

6030N

Net

2

Mesh

333

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 4269  
final rev. 39545  
initial rev. 38080  
Total 1465

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

A-Genet

☐

A-Gut

☐

A-Length

☐

A-Oto

☐

A-Wght

☐

Brain

☐

CAT

☐

Discard

☒

J-Genet

☐

J-Gut

☐

J-Length

☐

L-Oto

☐

L-Wght

☐

L-Bioch

☐

L-Genet

☐

L-Gut

☐

L-Hist

☐

L-Musc

☐

L-Oto

☐

Merist

☐

QTowF

☐

QTowS

☐

Pred

☐

RCountE

☐

RCountJ

☐

fish removed

Y / N

RCountL

☐

Shrink

☐

sample

☐

sample

☐

Gear

\_\_\_\_\_

Net

\_\_\_\_\_

Mesh

\_\_\_\_\_

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

A-Genet

☐

A-Gut

☐

A-Length

☐

A-Oto

☐

A-Wght

☐

Brain

☐

CAT

☐

Discard

☒

J-Genet

☐

J-Gut

☐

J-Length

☐

J-Oto

☐

J-Wght

☐

L-Bioch

☐

L-Genet

☐

L-Gut

☐

L-Hist

☐

L-Musc

☐

L-Oto

☐

Merist

☐

QTowF

☐

QTowS

☐

Pred

☐

RCountE

☐

RCountJ

☐

fish removed

Y / N

RCountL

☐

Shrink

☐

sample

☐

sample

☐

Gear

2030N

Net

2

Mesh

153

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 9851  
final rev. 39843  
initial rev. 38538  
Total 1305

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

A-Genet

☐

A-Gut

☐

A-Length

☐

A-Oto

☐

A-Wght

☐

Brain

☐

CAT

☐

Discard

☒

J-Genet

☐

J-Gut

☐

J-Length

☐

L-Oto

☐

L-Wght

☐

L-Bioch

☐

L-Genet

☐

L-Gut

☐

L-Hist

☐

L-Musc

☐

L-Oto

☐

Merist

☐

QTowF

☐

QTowS

☐

Pred

☐

RCountE

☐

RCountJ

☐

fish removed

Y / N

RCountL

☐

Shrink

☐

sample

☐

sample

☐

# Cruise Operations Database

Data Entered \_\_\_\_\_ Error Checked \_\_\_\_\_ Scientist \_\_\_\_\_

FOCI Cruise \_\_\_\_\_ Station M4-16A Haul 1 FOCI Station \_\_\_\_\_ Alt. Station BONO03  
(e.g. 4MF99) (e.g. HJ45 or FOX058) (e.g. CTD015 or MOC004)

Ships Cruise MFO2-05 GMT-Date 6-May-02 GM-Time 0158 Bottom Depth 68 m  
(e.g. MF99-08) (e.g. 20-May-98)

DLat 57 MLat 55.489 °N DLong 169 MLong 19.293 °W

Haul Comments CTD027

Gear GORDON Net 1 Mesh 333 um

please see FOCI Field Manual for Gear abbreviations

Performance
good
quest
fail
lost
(explain if not good)

Purpose
gridpre
grid
gridpost
diel
drift
phys
plnksurv
juvsurv
adult
gear
other
(explain)

Depth
min. <u>0</u> m
max. <u>56</u> m
Wire Out
min. <u>0</u> m
max. <u>74</u> m

Flowmeter
meter # <u>8990</u>
final rev. <u>55421</u>
initial rev. <u>54013</u>
Total <u>1408</u>

Tow Time
mess. net 0
at depth <u>2:18</u>
haul in
mess. net 1
Total <u>6:12</u>

## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

Absorb	ChLAM	J-Length	Lugols	QTowF	fish removed
ADCP	Chlor	J-Oto	Merist	QTowS	TSG
A-Genet	CTD	J-Wght	MZ	RCountE	VideoNet
A-Gut	Deploy	L-Bloch	NetFluor	RCountJ	XBT
A-Length	Discard	L-Genet	Nut	RCountL	sample
A-Oto	EBKG	L-Gut	Ovary	Recovery	sample
Asound	EK500	L-Hist	PAR	ScanMar	sample
A-Wght	Fluor	Live	PhytoF	Shrink	sample
Brain	J-Genet	L-Musc	POC	SSF	sample
CAT	J-Gut	L-Oto	Pred	Strip	sample

## CTDB Bottle

### Sample info

please record all samples collected (each bottle should have its own record)

Depth	Chlor	Nut	MZ	other
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x

Depth	Chlor	Nut	MZ	other
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x

Gear GORDON

Net 1

Mesh 153

um

please see FOCI Field Manual for Gear abbreviations

Performance
good
quest
fail
lost
(explain if not good)

Purpose
gridpre
grid
gridpost
diel
drift
phys
plnksurv
juvsurv
adult
gear
other
(explain)

Depth
min. _____ m
max. _____ m
Wire Out
min. _____ m
max. _____ m

Flowmeter
meter # <u>3107</u>
final rev. <u>33633</u>
initial rev. <u>36336</u>
Total <u>1261</u>

Tow Time
mess. net 1
at depth
haul in
mess. net 2
Total

## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

A-Genet	Brain	J-Length	L-Gut	QTowF	fish removed
A-Gut	CAT	J-Oto	L-Hist	QTowS	RCountL
A-Length	Discard	J-Wght	L-Musc	Pred	Shrink
A-Oto	J-Genet	L-Bloch	L-Oto	RCountE	sample
A-Wght	J-Gut	L-Genet	Merist	RCountJ	sample

<b>Gear</b> _____	<b>Net</b> _____	<b>Mesh</b> _____	<b>um</b> _____	<b>please see FOCI Field Manual for Gear abbreviations</b>
<b>Performance</b> good _____ quest _____ fail _____ lost _____ (explain if not good) _____	<b>Purpose</b> gridpre _____ grid _____ gridpost _____ die _____ drift _____ phys _____	<b>Depth</b> min. _____ m max. _____ m  <b>Wire Out</b> min. _____ m max. _____ m	<b>Flowmeter</b> meter # _____ final rev. _____ initial rev. _____ Total _____	<b>Tow Time</b> mess. net 0 _____ at depth _____ haul in _____ mess. net 1 _____ Total _____

		fish removed		Y / N
A-Genet	<input type="checkbox"/>	Brain	<input type="checkbox"/>	
A-Gut	<input type="checkbox"/>	CAT	<input type="checkbox"/>	
A-Length	<input type="checkbox"/>	Discard	<input checked="" type="checkbox"/>	
A-Oto	<input type="checkbox"/>	J-Genet	<input type="checkbox"/>	
A-Wght	<input type="checkbox"/>	J-Gut	<input type="checkbox"/>	
		J-Length	<input type="checkbox"/>	
		L-Oto	<input type="checkbox"/>	
		L-Wght	<input type="checkbox"/>	
		L-Bioch	<input type="checkbox"/>	
		L-Genet	<input type="checkbox"/>	
		L-Gut	<input type="checkbox"/>	
		L-Hist	<input type="checkbox"/>	
		L-Musc	<input type="checkbox"/>	
		L-Oto	<input type="checkbox"/>	
		Merist	<input type="checkbox"/>	
		QTowF	<input type="checkbox"/>	
		QTows	<input type="checkbox"/>	
		Pred	<input type="checkbox"/>	
		RCountE	<input type="checkbox"/>	
		RCountU	<input type="checkbox"/>	
		RCountL	<input type="checkbox"/>	
		Shrink	<input type="checkbox"/>	
		sample	<input type="checkbox"/>	
		sample	<input type="checkbox"/>	

<b>Performance</b> good _____ quest _____ fail _____ lost _____ (explain if not good) _____	<b>Purpose</b> gridpre _____ grid _____ gridpost _____ die _____ drift _____ phys _____	<b>Pink</b> pinksurv _____ juvsurv _____ adult _____ gear _____ other _____ (explain) _____
<b>Depth</b> min. _____ m max. _____ m <b>Wire Out</b> min. _____ m max. _____ m	<b>Flowmeter</b> meter # <u>4269</u> final rev. <u>80925</u> initial rev. <u>39545</u> <b>Total</b> <u>1380</u>	<b>Tow Time</b> mess. net 0 _____ at depth _____ haul in _____ mess. net 1 _____ <b>Total</b> _____

Gear COBOL Net 2 Mesh 333 um \_\_\_\_\_ please see FOCL Field Manual for Gear abbreviations

A-Genet	<input type="checkbox"/>	Brain	<input type="checkbox"/>	J-Length	<input type="checkbox"/>	L-Gut	<input type="checkbox"/>	QTowF	<input type="checkbox"/>	<i>fish removed Y / N</i>	
A-Gut	<input type="checkbox"/>	CAT	<input type="checkbox"/>	L-Oto	<input type="checkbox"/>	L-Hist	<input type="checkbox"/>	QTows	<input type="checkbox"/>		
A-Length	<input type="checkbox"/>	Discard	<input checked="" type="checkbox"/>	L-Wght	<input type="checkbox"/>	L-Musc	<input type="checkbox"/>	Pred	<input type="checkbox"/>	RCountL	<input type="checkbox"/>
A-Oto	<input type="checkbox"/>	J-Genet	<input type="checkbox"/>	L-Bioch	<input type="checkbox"/>	L-Oto	<input type="checkbox"/>	RCountE	<input type="checkbox"/>	Shrink	<input type="checkbox"/>
A-Wght	<input type="checkbox"/>	J-Gut	<input type="checkbox"/>	L-Genet	<input type="checkbox"/>	Merist	<input type="checkbox"/>	RCountJ	<input type="checkbox"/>	sample	<input type="checkbox"/>
										sample	<input type="checkbox"/>

<b>Performance</b> good quest fail lost (explain if not good)	<b>Purpose</b> gridpre grid gridpost diel drift phys	pinksurv jivsurg adult gear other (explain)
<b>Depth</b> min. _____ m max. _____ m	<b>Wire Out</b> min. _____ m max. _____ m	
<b>Flowmeter</b> meter # _____ final rev. _____ initial rev. _____ <b>Total</b> _____	<b>Tow Time</b> <b>Total</b> _____	

A-Genet	<input type="checkbox"/>	Brain	<input type="checkbox"/>	J-Length	<input type="checkbox"/>	L-Gut	<input type="checkbox"/>	QTowF	<input type="checkbox"/>	<i>fish removed</i>	Y / N
A-Gut	<input type="checkbox"/>	CAT	<input type="checkbox"/>	J-Oto	<input type="checkbox"/>	L-Hist	<input type="checkbox"/>	QTows	<input type="checkbox"/>		RCountL
A-Length	<input type="checkbox"/>	Discard	<input checked="" type="checkbox"/>	J-Wght	<input type="checkbox"/>	L-Musc	<input type="checkbox"/>	Pred	<input type="checkbox"/>		Shrink
A-Oto	<input type="checkbox"/>	J-Genet	<input type="checkbox"/>	L-Bloch	<input type="checkbox"/>	L-Oto	<input type="checkbox"/>	RCountE	<input type="checkbox"/>		sample
A-Wght	<input type="checkbox"/>	J-Gut	<input type="checkbox"/>	L-Genet	<input type="checkbox"/>	Meist	<input type="checkbox"/>	RCountJ	<input type="checkbox"/>		sample

<b>Gear</b> <u>20.50N</u> <b>Net</b> <u>2</u>		<b>Mesh</b> <u>153</u> <b>um</b> _____		please see FOCI Field Manual for Gear abbreviations	
<b>Performance</b> good _____ quest _____ fail _____ lost _____ (explain if not good) _____		<b>Purpose</b> gridprp _____ plksurv _____ grid _____ juvsurv _____ gridpost _____ adult _____ diel _____ gear _____ drift _____ other _____ phys _____ (explain) _____		<b>Depth</b> min. _____ m max. _____ m  <b>Wire Out</b> min. _____ m max. _____ m	
<b>Flowmeter</b> meter # <u>9851</u> final rev. <u>41044</u> initial rev. <u>39843</u> Total <u>1201</u>		<b>Tow Time</b> Total _____			

<p><b>Depth</b></p> <p>min. _____ m</p> <p>max. _____ m</p> <p><b>Wire Out</b></p> <p>min. _____ m</p> <p>max. _____ m</p>	<p><b>Flowmeter</b></p> <p>meter # _____</p> <p>final rev. _____</p> <p>initial rev. _____</p> <p><b>Total</b> _____</p>
<p><b>Tow Time</b></p> <p>mess. net 0 _____</p> <p>at depth _____</p> <p>haul in _____</p> <p>mess. net 1 _____</p> <p><b>Total</b> _____</p>	

L-Genet	<input type="checkbox"/>	Merist	<input type="checkbox"/>	RCountJ	<input type="checkbox"/>	<i>fish removed</i>	Y / N
L-Bioch	<input type="checkbox"/>	L-Oto	<input type="checkbox"/>	RCountE	<input type="checkbox"/>	<u>sample</u>	<input type="checkbox"/>
L-Wght	<input type="checkbox"/>	L-Musc	<input type="checkbox"/>	Pred	<input type="checkbox"/>	Shrink	<input type="checkbox"/>
L-Oto	<input type="checkbox"/>	L-Hist	<input type="checkbox"/>	QTows	<input type="checkbox"/>	RCountL	<input type="checkbox"/>
L-Length	<input type="checkbox"/>	L-Gut	<input type="checkbox"/>	QTowF	<input type="checkbox"/>		

Mesh 333 um please see FOCI Field Manual for Gear abbreviations

<b>Depth</b> min. _____ m max. _____ m	
<b>Wire Out</b> min. _____ m max. _____ m	
<b>Flowmeter</b> meter # <u>4269</u> final rev. <u>80925</u> initial rev. <u>39545</u> Total <u>1380</u>	
<b>Tow Time</b> mess. net 0 _____ at depth _____ haul in _____ mess. net 1 _____ Total _____	

J-Length	<input type="text"/>	L-Gut	<input type="text"/>	QTowF	<input type="text"/>	<i>fish removed Y / N</i>
L-Oto	<input type="text"/>	L-Hist	<input type="text"/>	QTows	<input type="text"/>	
L-Wght	<input type="text"/>	L-Musc	<input type="text"/>	Pred	<input type="text"/>	RCountL
L-Bioch	<input type="text"/>	L-Oto	<input type="text"/>	RCountE	<input type="text"/>	Shrink
L-Genet	<input type="text"/>	Meist	<input type="text"/>	RCountJ	<input type="text"/>	sample
						sample

<b>Mesh</b> _____ <b>um</b> please see FOCI Field Manual for Gear abbreviations	<b>Depth</b> min. _____ m max. _____ m <b>Wire Out</b> min. _____ m max. _____ m
	<b>Flowmeter</b> meter # _____ final rev. _____ initial rev. _____ <b>Total</b> _____
	<b>Tow Time</b> <b>Total</b> _____

J-Length	<input type="text"/>	L-Gut	<input type="text"/>	QTowF	<input type="text"/>	<i>fish removed</i> Y / N
J-Oto	<input type="text"/>	L-Hist	<input type="text"/>	QTows	<input type="text"/>	
J-Wght	<input type="text"/>	L-Musc	<input type="text"/>	Pred	<input type="text"/>	Shrink
L-Bioch	<input type="text"/>	L-Oto	<input type="text"/>	RCountE	<input type="text"/>	<u>sample</u>
L-Genet	<input type="text"/>	Meist	<input type="text"/>	RCountJ	<input type="text"/>	<u>sample</u>

**Mesh** 153 **um** *please see FOCI Field Manual for Gear abbreviations*

<b>Depth</b> min. <u>          </u> m max. <u>          </u> m	<b>Flowmeter</b> meter # <u>9851</u> final rev. <u>41044</u> initial rev. <u>39843</u>
<b>Wire Out</b> min. <u>          </u> m max. <u>          </u> m	<b>Tow Time</b> Total <u>          </u>

# Cruise Operations Database

Data Entered \_\_\_\_\_ Error Checked \_\_\_\_\_ Scientist \_\_\_\_\_

FOCI Cruise \_\_\_\_\_ Station M4-Net Haul 1 FOCI Station \_\_\_\_\_ Alt. Station: BON004  
(e.g. 4MF99) (e.g. HJ45 or FOX058) (e.g. CTD015 or MOC004)

Ships Cruise MF02-05 GMT-Date 6-MAY-02 GM-Time 0414 Bottom Depth 70 m  
(e.g. MF99-08) (e.g. 20-May-98)

DLat 58 MLat 04.04 °N DLong 168 MLong 43.89 °W

Haul Comments CTD028

@ depth ~15-30 m

Gear <u>6030N</u>	Net <u>1</u>	Mesh <u>333</u>	um	please see FOCI Field Manual for Gear abbreviations	
<div><b>Performance</b> good quest fail lost (explain if not good)</div>	<div><b>Purpose</b> gridpre grid gridpost diet drift phys</div>	<div><b>Depth</b> min. <u>0</u> m max. <u>60</u> m  Wire Out min. <u>0</u> m max. <u>33</u> m</div>	<div><b>Flowmeter</b> meter # <u>8990</u> final rev. <u>56836</u> initial rev. <u>55421</u>  Total <u>1415</u></div>	<div><b>Tow Time</b> mess. net 0 at depth <u>~2:30</u> haul in mess. net 1  Total <u>6:05</u></div>	

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

## Samples Collected

Absorb <input type="checkbox"/>	ChLAM <input type="checkbox"/>	J-Length <input type="checkbox"/>	Lugols <input type="checkbox"/>	QToF <input type="checkbox"/>	fish removed Y / N
ADCP <input type="checkbox"/>	Chlor <input type="checkbox"/>	J-Oto <input type="checkbox"/>	Merist <input type="checkbox"/>	QToWS <input type="checkbox"/>	TSG <input type="checkbox"/>
A-Genet <input type="checkbox"/>	CTD <input type="checkbox"/>	J-Wght <input type="checkbox"/>	MZ <input type="checkbox"/>	RCountE <input type="checkbox"/>	VideoNet <input type="checkbox"/>
A-Gut <input type="checkbox"/>	Deploy <input type="checkbox"/>	L-Bloch <input type="checkbox"/>	NetFluor <input type="checkbox"/>	RCountJ <input type="checkbox"/>	XBT <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	L-Genet <input type="checkbox"/>	Nut <input type="checkbox"/>	RCountL <input type="checkbox"/>	sample <input type="checkbox"/>
A-Oto <input type="checkbox"/>	EBKG <input type="checkbox"/>	L-Gut <input type="checkbox"/>	Ovary <input type="checkbox"/>	Recovery <input type="checkbox"/>	sample <input type="checkbox"/>
Asound <input type="checkbox"/>	EK500 <input type="checkbox"/>	L-Hist <input type="checkbox"/>	PAR <input type="checkbox"/>	ScanMar <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	Fluor <input type="checkbox"/>	Live <input type="checkbox"/>	PhytoF <input type="checkbox"/>	Shrink <input type="checkbox"/>	sample <input type="checkbox"/>
Brain <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Musc <input type="checkbox"/>	POC <input type="checkbox"/>	SSF <input type="checkbox"/>	sample <input type="checkbox"/>
CAT <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Oto <input type="checkbox"/>	Pred <input type="checkbox"/>	Strip <input type="checkbox"/>	sample <input type="checkbox"/>

## CTDB Bottle

### Sample info

please record all samples collected (each bottle should have its own record)

Depth	Chlor	Nut	MZ	other	Depth	Chlor	Nut	MZ	other
m	volume	bottle #	x	x	m	volume	bottle #	x	x
m	volume	bottle #	x	x	m	volume	bottle #	x	x
m	volume	bottle #	x	x	m	volume	bottle #	x	x
m	volume	bottle #	x	x	m	volume	bottle #	x	x
m	volume	bottle #	x	x	m	volume	bottle #	x	x

<div><b>Performance</b> good quest fail lost (explain if not good)</div>	<div><b>Purpose</b> gridpre grid gridpost diet drift phys</div>	<div><b>Depth</b> min. _____ m max. _____ m  Wire Out min. _____ m max. _____ m</div>	<div><b>Flowmeter</b> meter # <u>3103</u> final rev. <u>38863</u> initial rev. <u>33633</u>  Total <u>1230</u></div>	<div><b>Tow Time</b> mess. net 1 at depth haul in mess. net 2  Total _____</div>
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## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

A-Genet <input type="checkbox"/>	Brain <input type="checkbox"/>	J-Length <input type="checkbox"/>	L-Gut <input type="checkbox"/>	QToF <input type="checkbox"/>	fish removed Y / N
A-Gut <input type="checkbox"/>	CAT <input type="checkbox"/>	J-Oto <input type="checkbox"/>	L-Hist <input type="checkbox"/>	QToWS <input type="checkbox"/>	RCountL <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	J-Wght <input type="checkbox"/>	L-Musc <input type="checkbox"/>	Pred <input type="checkbox"/>	Shrink <input type="checkbox"/>
A-Oto <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Bloch <input type="checkbox"/>	L-Oto <input type="checkbox"/>	RCountE <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Genet <input type="checkbox"/>	Merist <input type="checkbox"/>	RCountJ <input type="checkbox"/>	sample <input type="checkbox"/>

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_

Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_

Total \_\_\_\_\_

Gear \_\_\_\_\_

Net \_\_\_\_\_

Mesh \_\_\_\_\_ um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y / N

RCountL ☐

Shrink ☐

sample ☐

sample ☐

sample ☐

Gear GOBBON

Net 2

Mesh 333 um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 4269  
final rev. 82323  
initial rev. 80925

Total 1402

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_

Total \_\_\_\_\_

Gear GOBBON

Net 2

Mesh 333 um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y / N

RCountL ☐

Shrink ☐

sample ☐

sample ☐

sample ☐

Gear \_\_\_\_\_

Net \_\_\_\_\_

Mesh \_\_\_\_\_ um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_

Total \_\_\_\_\_

Tow Time

Total \_\_\_\_\_

Gear \_\_\_\_\_

Net \_\_\_\_\_

Mesh \_\_\_\_\_ um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

J-Oto ☐

J-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y / N

RCountL ☐

Shrink ☐

sample ☐

sample ☐

sample ☐

Gear \_\_\_\_\_

Net \_\_\_\_\_

Mesh \_\_\_\_\_ um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 9851  
final rev. 42854  
initial rev. 41044

Total 1210

Tow Time

Total \_\_\_\_\_

Gear GOBBON

Net 2

Mesh 153 um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y / N

RCountL ☐

Shrink ☐

sample ☐

sample ☐

sample ☐

Gear \_\_\_\_\_

Net \_\_\_\_\_

Mesh \_\_\_\_\_ um

please see FOCI Field Manual for Gear abbreviations



# Cruise Operations Database

Data Entered \_\_\_\_\_ Error Checked \_\_\_\_\_ Scientist \_\_\_\_\_

FOCI Cruise \_\_\_\_\_ Station MA-66X Haul 1 FOCI Station \_\_\_\_\_ Alt. Station BON005  
(e.g. 4MF99) (e.g. HJ45 or FOX058) (e.g. CTD015 or MOC004)

Ships Cruise MF02-05 GMT-Date 6-MAY-02 GM-Time 0636 Bottom Depth 69 m  
(e.g. MF99-06) (e.g. 20-May-99)

DLat 57 MLat 46.07 °N DLong 168 MLong 28.05 °W

Haul Comments CTD029

Gear LOBON Net 1 Mesh 333 um please see FOCI Field Manual for Gear abbreviations

Performance
good <input type="checkbox"/>
quest <input type="checkbox"/>
fail <input type="checkbox"/>
lost <input type="checkbox"/>
(explain if not good)

Purpose
gridpre <input type="checkbox"/>
grid <input type="checkbox"/>
gridpost <input type="checkbox"/>
diel <input type="checkbox"/>
drift <input type="checkbox"/>
phys <input type="checkbox"/>
plnksurv <input type="checkbox"/>
juvsurv <input type="checkbox"/>
adult <input type="checkbox"/>
gear <input type="checkbox"/>
other <input type="checkbox"/>
(explain)

Depth
min. <u>0</u> m
max. <u>63</u> m
Wire Out
min. <u>0</u> m
max. <u>85</u> m

Flowmeter
meter # <u>8990</u>
final rev. <u>58409</u>
initial rev. <u>56836</u>
Total <u>1533</u>

Tow Time
mess. net 0 _____
at depth <u>2:36</u>
haul in _____
mess. net 1 _____
Total <u>6:42</u>

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

## Samples Collected

Absorb <input type="checkbox"/>	ChLAM <input type="checkbox"/>	J-Length <input type="checkbox"/>	Lugols <input type="checkbox"/>	QTowF <input type="checkbox"/>	fish removed Y / N
ADCP <input type="checkbox"/>	Chlor <input type="checkbox"/>	J-Oto <input type="checkbox"/>	Merist <input type="checkbox"/>	QTowS <input type="checkbox"/>	TSG <input type="checkbox"/>
A-Genet <input type="checkbox"/>	CTD <input type="checkbox"/>	J-Wght <input type="checkbox"/>	MZ <input type="checkbox"/>	RCountE <input type="checkbox"/>	VideoNet <input type="checkbox"/>
A-Gut <input type="checkbox"/>	Deploy <input type="checkbox"/>	L-Bioch <input type="checkbox"/>	NetFluor <input type="checkbox"/>	RCountJ <input type="checkbox"/>	XBT <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	L-Genet <input type="checkbox"/>	Nut <input type="checkbox"/>	RCountL <input type="checkbox"/>	sample <input type="checkbox"/>
A-Oto <input type="checkbox"/>	EBKG <input type="checkbox"/>	L-Gut <input type="checkbox"/>	Ovary <input type="checkbox"/>	Recovery <input type="checkbox"/>	sample <input type="checkbox"/>
Asound <input type="checkbox"/>	EK500 <input type="checkbox"/>	L-Hist <input type="checkbox"/>	PAR <input type="checkbox"/>	ScanMar <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	Fluor <input type="checkbox"/>	Live <input type="checkbox"/>	PhytoF <input type="checkbox"/>	Shrink <input type="checkbox"/>	sample <input type="checkbox"/>
Brain <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Musc <input type="checkbox"/>	POC <input type="checkbox"/>	SSF <input type="checkbox"/>	sample <input type="checkbox"/>
CAT <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Oto <input type="checkbox"/>	Pred <input type="checkbox"/>	Strip <input type="checkbox"/>	sample <input type="checkbox"/>

## CTDB Bottle Sample info

please record all samples collected (each bottle should have its own record)

Depth	Chlor	Nut	MZ	other
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x

Depth	Chlor	Nut	MZ	other
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	ottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x

Gear 2 Net 1 Mesh 153 um please see FOCI Field Manual for Gear abbreviations

Performance
good <input type="checkbox"/>
quest <input type="checkbox"/>
fail <input type="checkbox"/>
lost <input type="checkbox"/>
(explain if not good)

Purpose
gridpre <input type="checkbox"/>
grid <input type="checkbox"/>
gridpost <input type="checkbox"/>
diel <input type="checkbox"/>
drift <input type="checkbox"/>
phys <input type="checkbox"/>
plnksurv <input type="checkbox"/>
juvsurv <input type="checkbox"/>
adult <input type="checkbox"/>
gear <input type="checkbox"/>
other <input type="checkbox"/>
(explain)

Depth
min. _____ m
max. _____ m
Wire Out
min. _____ m
max. _____ m

Flowmeter
meter # <u>3107</u>
final rev. <u>80329</u>
initial rev. <u>78867</u>
Total <u>1462</u>

Tow Time
mess. net 1 _____
at depth _____
haul in _____
mess. net 2 _____
Total _____

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

## Samples Collected

A-Genet <input type="checkbox"/>	Brain <input type="checkbox"/>	J-Length <input type="checkbox"/>	L-Gut <input type="checkbox"/>	QTowF <input type="checkbox"/>	fish removed Y / N
A-Gut <input type="checkbox"/>	CAT <input type="checkbox"/>	J-Oto <input type="checkbox"/>	L-Hist <input type="checkbox"/>	QTowS <input type="checkbox"/>	RCountL <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	J-Wght <input type="checkbox"/>	L-Musc <input type="checkbox"/>	Pred <input type="checkbox"/>	Shrink <input type="checkbox"/>
A-Oto <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Bioch <input type="checkbox"/>	L-Oto <input type="checkbox"/>	RCountE <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Genet <input type="checkbox"/>	Merist <input type="checkbox"/>	RCountJ <input type="checkbox"/>	sample <input type="checkbox"/>

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_

Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear \_\_\_\_\_

Net \_\_\_\_\_

Mesh \_\_\_\_\_ um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N \_\_\_\_\_

RCountL ☐

Shrink ☐

sample ☐

sample ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N \_\_\_\_\_

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 4269  
final rev. 83899  
initial rev. 82323

Total 15392

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear LOBON

Net 2

Mesh 333 um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N \_\_\_\_\_

RCountL ☐

Shrink ☐

sample ☐

sample ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N \_\_\_\_\_

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_

Total \_\_\_\_\_

Tow Time

Total \_\_\_\_\_

Gear \_\_\_\_\_

Net \_\_\_\_\_

Mesh \_\_\_\_\_ um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

J-Oto ☐

J-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N \_\_\_\_\_

RCountL ☐

Shrink ☐

sample ☐

sample ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N \_\_\_\_\_

Gear LOBON

Net 2

Mesh 153 um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 9851  
final rev. 43639  
initial rev. 42254

Total 1425

Tow Time

Total \_\_\_\_\_

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N \_\_\_\_\_

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N \_\_\_\_\_

RCountL ☐

Shrink ☐

sample ☐

sample ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N \_\_\_\_\_

# Cruise Operations Database

Data Entered \_\_\_\_\_ Error Checked \_\_\_\_\_ Scientist \_\_\_\_\_

FOCI Cruise \_\_\_\_\_ Station Ma Haul 1 FOCI Station \_\_\_\_\_ Alt. Station BON006  
(e.g. 4MF98) (e.g. HJ45 or FOX058) (e.g. CTD015 or MOC004)

Ships Cruise MF02-05 GMT-Date 07-Nov-02 GM-Time 0319 Bottom Depth 71 m  
(e.g. MF99-06) (e.g. 20-May-99)

DLat 56 MLat 52.39 °N DLong 164 MLong 03.23 °W

Haul Comments CID035

Gear <u>LOBON</u> Net <u>1</u>	Mesh <u>333</u> um	please see FOCI Field Manual for Gear abbreviations		
<div><div>Performance</div><div>good quest fail lost (explain if not good)</div></div>	<div><div>Purpose</div><div>gridpre grid gridpost diel drift phys</div></div>	<div><div>Depth</div><div>min. _____ m max. <u>63</u> m  Wire Out min. _____ m max. <u>82</u> m</div></div>	<div><div>Flowmeter</div><div>meter # <u>8990</u> final rev. <u>59827</u> initial rev. <u>58409</u>  Total <u>1418</u></div></div>	<div><div>Tow Time</div><div>mess. net 0 _____ at depth <u>2:27</u> haul in _____ mess. net 1 _____  Total <u>6:44</u></div></div>

52 63 72 circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

## Samples Collected

Absorb <input type="checkbox"/>	ChLAM <input type="checkbox"/>	J-Length <input type="checkbox"/>	Lugols <input type="checkbox"/>	QTowF <input type="checkbox"/>	fish removed Y / N
ADCP <input type="checkbox"/>	Chlor <input type="checkbox"/>	J-Oto <input type="checkbox"/>	Merist <input type="checkbox"/>	QTowS <input type="checkbox"/>	TSG <input type="checkbox"/>
A-Genet <input type="checkbox"/>	CTD <input type="checkbox"/>	J-Wght <input type="checkbox"/>	MZ <input type="checkbox"/>	RCountE <input type="checkbox"/>	VideoNet <input type="checkbox"/>
A-Gut <input type="checkbox"/>	Deploy <input type="checkbox"/>	L-Bloch <input type="checkbox"/>	NetFluor <input type="checkbox"/>	RCountJ <input type="checkbox"/>	XBT <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	L-Genet <input type="checkbox"/>	Nut <input type="checkbox"/>	RCountL <input type="checkbox"/>	sample <input type="checkbox"/>
A-Oto <input type="checkbox"/>	EBKG <input type="checkbox"/>	L-Gut <input type="checkbox"/>	Ovary <input type="checkbox"/>	Recovery <input type="checkbox"/>	sample <input type="checkbox"/>
Asound <input type="checkbox"/>	EK500 <input type="checkbox"/>	L-Hist <input type="checkbox"/>	PAR <input type="checkbox"/>	ScanMar <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	Fluor <input type="checkbox"/>	Live <input type="checkbox"/>	PhytoF <input type="checkbox"/>	Shrink <input type="checkbox"/>	sample <input type="checkbox"/>
Brain <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Musc <input type="checkbox"/>	POC <input type="checkbox"/>	SSF <input type="checkbox"/>	sample <input type="checkbox"/>
CAT <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Oto <input type="checkbox"/>	Pred <input type="checkbox"/>	Strip <input type="checkbox"/>	sample <input type="checkbox"/>

## CTDB Bottle

### Sample info

please record all  
samples collected  
(each bottle should  
have its own record)

Depth	Chlor	Nut	MZ	other
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x

Depth	Chlor	Nut	MZ	other
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x

Gear <u>2</u> Net <u>1</u>	Mesh <u>153</u> um	please see FOCI Field Manual for Gear abbreviations		
<div><div>Performance</div><div>good quest fail lost (explain if not good)</div></div>	<div><div>Purpose</div><div>gridpre grid gridpost diel drift phys</div></div>	<div><div>Depth</div><div>min. _____ m max. _____ m  Wire Out min. _____ m max. _____ m</div></div>	<div><div>Flowmeter</div><div>meter # <u>3107</u> final rev. <u>81659</u> initial rev. <u>80329</u>  Total <u>1330</u></div></div>	<div><div>Tow Time</div><div>mess. net 1 _____ at depth _____ haul in _____ mess. net 2 _____  Total _____</div></div>

## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

A-Genet <input type="checkbox"/>	Brain <input type="checkbox"/>	J-Length <input type="checkbox"/>	L-Gut <input type="checkbox"/>	QTowF <input type="checkbox"/>	fish removed Y / N
A-Gut <input type="checkbox"/>	CAT <input type="checkbox"/>	J-Oto <input type="checkbox"/>	L-Hist <input type="checkbox"/>	QTowS <input type="checkbox"/>	RCountL <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	J-Wght <input type="checkbox"/>	L-Musc <input type="checkbox"/>	Pred <input type="checkbox"/>	Shrink <input type="checkbox"/>
A-Oto <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Bloch <input type="checkbox"/>	L-Oto <input type="checkbox"/>	RCountE <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Genet <input type="checkbox"/>	Merist <input type="checkbox"/>	RCountJ <input type="checkbox"/>	sample <input type="checkbox"/>

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

sample ☐

Gear

6030N

Net

2

Mesh

333

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 4269  
final rev. 85319  
initial rev. 83899  
Total 1420

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

sample ☐

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

Total \_\_\_\_\_

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

J-Oto ☐

J-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

sample ☐

Gear

2030N

Net

2

Mesh

153

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 9851  
final rev. 44983  
initial rev. 43679  
Total 1304

Tow Time

Total \_\_\_\_\_

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

sample ☐



Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

A-Genet

☐

Brain

☐

A-Gut

☐

CAT

☐

A-Length

☐

Discard

☒

A-Oto

☐

J-Genet

☐

A-Wght

☐

J-Gut

☐

J-Length

☐

L-Gut

☐

L-Oto

☐

L-Hist

☐

L-Wght

☐

L-Musc

☐

L-Bioch

☐

L-Genet

☐

Merist

☐

QTowF

☐

fish removed

Y / N

QToWS

☐

RCountL

☐

Pred

☐

Shrink

☐

RCountE

☐

sample

☐

RCountU

☐

sample

☐

Gear 600BON Net 2 Mesh 333 um please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 4269  
final rev. 86921  
initial rev. 85319  
Total 1602

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

A-Genet

☐

Brain

☐

A-Gut

☐

CAT

☐

A-Length

☐

Discard

☒

A-Oto

☐

J-Genet

☐

A-Wght

☐

J-Gut

☐

J-Length

☐

L-Gut

☐

L-Oto

☐

L-Hist

☐

L-Wght

☐

L-Musc

☐

L-Bioch

☐

L-Genet

☐

Merist

☐

QTowF

☐

fish removed

Y / N

QToWS

☐

RCountL

☐

Pred

☐

Shrink

☐

RCountE

☐

sample

☐

RCountU

☐

sample

☐

Gear \_\_\_\_\_ Net \_\_\_\_\_ Mesh \_\_\_\_\_ um please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

Total \_\_\_\_\_

A-Genet

☐

Brain

☐

A-Gut

☐

CAT

☐

A-Length

☐

Discard

☒

A-Oto

☐

J-Genet

☐

A-Wght

☐

J-Gut

☐

J-Length

☐

L-Gut

☐

L-Oto

☐

L-Hist

☐

L-Wght

☐

L-Musc

☐

L-Bioch

☐

L-Genet

☐

Merist

☐

QTowF

☐

fish removed

Y / N

QToWS

☐

RCountL

☐

Pred

☐

Shrink

☐

RCountE

☐

sample

☐

RCountU

☐

sample

☐

Gear 200BON Net 2 Mesh 153 um please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 9851  
final rev. 46169  
initial rev. 44983  
Total 1186

Tow Time

Total \_\_\_\_\_

A-Genet

☐

Brain

☐

A-Gut

☐

CAT

☐

A-Length

☐

Discard

☒

A-Oto

☐

J-Genet

☐

A-Wght

☐

J-Gut

☐

J-Length

☐

L-Gut

☐

L-Oto

☐

L-Hist

☐

L-Wght

☐

L-Musc

☐

L-Bioch

☐

L-Genet

☐

Merist

☐

QTowF

☐

fish removed

Y / N

QToWS

☐

RCountL

☐

Pred

☐

Shrink

☐

RCountE

☐

sample

☐

RCountU

☐

sample

☐

# Cruise Operations Database

Data Entered \_\_\_\_\_ Error Checked \_\_\_\_\_ Scientist \_\_\_\_\_

FOCI Cruise \_\_\_\_\_ Station 20BON Haul 1 FOCI Station \_\_\_\_\_ Alt. Station 20BON08  
(e.g. 4MF98) (e.g. HJ45 or FOX058) (e.g. CTD015 or MOC004)

Ships Cruise MF02-05 GMT-Date 03-MAY-02 GM-Time 0631 Bottom Depth 68 m  
(e.g. MF99-06) (e.g. 20-May-99)

DLat 53 MLat 1.09 °N DLong 164 MLong 12.80 °W

Haul Comments CTD033

Gear <u>LOBON</u> Net <u>1</u>	Mesh <u>333</u> um	please see FOCI Field Manual for Gear abbreviations		
<div><b>Performance</b> good <input type="checkbox"/> quest <input type="checkbox"/> fail <input type="checkbox"/> lost <input type="checkbox"/> (explain if not good)</div>	<div><b>Purpose</b> gridpre <input type="checkbox"/> plinksurv <input type="checkbox"/> grid <input type="checkbox"/> juvsurv <input type="checkbox"/> gridpost <input type="checkbox"/> adult <input type="checkbox"/> diel <input type="checkbox"/> gear <input type="checkbox"/> drift <input type="checkbox"/> other <input type="checkbox"/> phys (explain)</div>	<div><b>Depth</b> min. <u>0</u> m max. <u>59</u> m <b>Wire Out</b> min. <u>0</u> m max. <u>81</u> m</div>	<div><b>Flowmeter</b> meter # <u>8990</u> final rev. <u>62505</u> initial rev. <u>61120</u> <b>Total</b> <u>1385</u></div>	<div><b>Tow Time</b> mess. net 0 _____ at depth <u>209</u> haul in _____ mess. net 1 _____ <b>Total</b> <u>643</u></div>

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

## Samples Collected

<div>49 59 69</div> <div>Absorb <input type="checkbox"/> ADCP <input type="checkbox"/> A-Genet <input type="checkbox"/> A-Gut <input type="checkbox"/> A-Length <input type="checkbox"/> A-Oto <input type="checkbox"/> Asound <input type="checkbox"/> A-Wght <input type="checkbox"/> Brain <input type="checkbox"/> CAT <input type="checkbox"/></div>	<div>ChLAM <input type="checkbox"/> Chlor <input type="checkbox"/> CTD <input type="checkbox"/> Deploy <input type="checkbox"/> Discard <input checked="" type="checkbox"/> EBKG <input type="checkbox"/> EK500 <input type="checkbox"/> Fluor <input type="checkbox"/> J-Genet <input type="checkbox"/> J-Gut <input type="checkbox"/></div>	<div>J-Length <input type="checkbox"/> J-Oto <input type="checkbox"/> J-Wght <input type="checkbox"/> L-Bloch <input type="checkbox"/> L-Genet <input type="checkbox"/> L-Gut <input type="checkbox"/> L-Hist <input type="checkbox"/> Live <input type="checkbox"/> L-Musc <input type="checkbox"/> L-Oto <input type="checkbox"/></div>	<div>Lugols <input type="checkbox"/> Merist <input type="checkbox"/> MZ <input type="checkbox"/> NetFluor <input type="checkbox"/> Nut <input type="checkbox"/> Ovary <input type="checkbox"/> PAR <input type="checkbox"/> PhytoF <input type="checkbox"/> POC <input type="checkbox"/> Pred <input type="checkbox"/></div>	<div>QToF <input type="checkbox"/> QTowS <input type="checkbox"/> RCountE <input type="checkbox"/> RCountJ <input type="checkbox"/> RCountL <input type="checkbox"/> Recovery <input type="checkbox"/> ScanMar <input type="checkbox"/> Shrink <input type="checkbox"/> SSF <input type="checkbox"/> Strip <input type="checkbox"/></div>	<div>fish removed Y / N TSG <input type="checkbox"/> VideoNet <input type="checkbox"/> XBT <input type="checkbox"/> sample <input type="checkbox"/> sample <input type="checkbox"/> sample <input type="checkbox"/> sample <input type="checkbox"/> sample <input type="checkbox"/> sample <input type="checkbox"/></div>
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## CTDB Bottle

**Sample info**  
please record all  
samples collected  
(each bottle should  
have its own record)

Depth	Chlor	Nut	MZ	other	Depth	Chlor	Nut	MZ	other
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Gear 20BON Net 1 Mesh 153 um please see FOCI Field Manual for Gear abbreviations

<div><b>Performance</b> good <input type="checkbox"/> quest <input type="checkbox"/> fail <input type="checkbox"/> lost <input type="checkbox"/> (explain if not good)</div>	<div><b>Purpose</b> gridpre <input type="checkbox"/> plinksurv <input type="checkbox"/> grid <input type="checkbox"/> juvsurv <input type="checkbox"/> gridpost <input type="checkbox"/> adult <input type="checkbox"/> diel <input type="checkbox"/> gear <input type="checkbox"/> drift <input type="checkbox"/> other <input type="checkbox"/> phys (explain)</div>	<div><b>Depth</b> min. _____ m max. _____ m <b>Wire Out</b> min. _____ m max. _____ m</div>	<div><b>Flowmeter</b> meter # <u>3103</u> final rev. <u>83021</u> initial rev. <u>81661</u> <b>Total</b> <u>1360</u></div>	<div><b>Tow Time</b> mess. net 1 _____ at depth _____ haul in _____ mess. net 2 _____ <b>Total</b> _____</div>
circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)				
<div>A-Genet <input type="checkbox"/> A-Gut <input type="checkbox"/> A-Length <input type="checkbox"/> A-Oto <input type="checkbox"/> A-Wght <input type="checkbox"/></div>	<div>Brain <input type="checkbox"/> CAT <input type="checkbox"/> Discard <input checked="" type="checkbox"/> J-Genet <input type="checkbox"/> J-Gut <input type="checkbox"/></div>	<div>J-Length <input type="checkbox"/> J-Oto <input type="checkbox"/> J-Wght <input type="checkbox"/> L-Bloch <input type="checkbox"/> L-Genet <input type="checkbox"/></div>	<div>L-Gut <input type="checkbox"/> L-Hist <input type="checkbox"/> L-Musc <input type="checkbox"/> L-Oto <input type="checkbox"/> Merist <input type="checkbox"/></div>	<div>fish removed Y / N QToF <input type="checkbox"/> QTowS <input type="checkbox"/> Pred <input type="checkbox"/> RCountE <input type="checkbox"/> RCountJ <input type="checkbox"/></div>

Performance

good  
quest  
fail  
lost  
(explain if  
not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y / N

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Performance

good  
quest  
fail  
lost  
(explain if  
not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y / N

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Performance

good  
quest  
fail  
lost  
(explain if  
not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 4269  
final rev. 88305  
initial rev. 86921  
Total 1384

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y / N

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Performance

good  
quest  
fail  
lost  
(explain if  
not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y / N

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Performance

good  
quest  
fail  
lost  
(explain if  
not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y / N

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Performance

good  
quest  
fail  
lost  
(explain if  
not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y / N

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Performance

good  
quest  
fail  
lost  
(explain if  
not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 9851  
final rev. 43473  
initial rev. 46169  
Total 1304

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y / N

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Performance

good  
quest  
fail  
lost  
(explain if  
not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations



# Cruise Operations Database

Data Entered \_\_\_\_\_ Error Checked \_\_\_\_\_ Scientist \_\_\_\_\_

FOCI Cruise \_\_\_\_\_ Station MO-SPR-Haul 1 FOCI Station \_\_\_\_\_ Alt. Station BON009  
(e.g. 4MF98) (e.g. HJ45 or FOX058)

Ships Cruise MF02-05 GMT-Date 3-Mar-02 GM-Time 0911 Bottom Depth 34 m  
(e.g. MF99-06) (e.g. 20-Mar-99)

DLat 56 MLat 39.62 °N DLong 163 MLong 53.11 °W

Haul Comments CTD038

Gear LOBON Net 1 Mesh 333 um

please see FOCI Field Manual for Gear abbreviations

Performance
good
quest
fail
lost
(explain if not good)

Purpose
gridpre
grid
gridpost
diel
drift
phys
plnksurv
juvsurv
adult
gear
other
(explain)

Depth
min.
max.
Wire Out
min.
max.

Flowmeter
meter # <u>8990</u>
final rev. <u>64639</u>
initial rev. <u>62505</u>
Total

Tow Time
mess. net 0
at depth <u>3.14</u>
haul in
mess. net 1
Total <u>8.34</u>

## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

Absorb	<input type="checkbox"/>	ChLAM	<input type="checkbox"/>	J-Length	<input type="checkbox"/>	Lugols	<input type="checkbox"/>	QToF	<input type="checkbox"/>	fish removed	Y / N
ADCP	<input type="checkbox"/>	Chlor	<input type="checkbox"/>	J-Oto	<input type="checkbox"/>	Merist	<input type="checkbox"/>	QTowS	<input type="checkbox"/>	TSG	<input type="checkbox"/>
A-Genet	<input type="checkbox"/>	CTD	<input type="checkbox"/>	J-Wght	<input type="checkbox"/>	MZ	<input type="checkbox"/>	RCountE	<input type="checkbox"/>	VideoNet	<input type="checkbox"/>
A-Gut	<input type="checkbox"/>	Deploy	<input type="checkbox"/>	L-Bloch	<input type="checkbox"/>	NetFluor	<input type="checkbox"/>	RCountJ	<input type="checkbox"/>	XBT	<input type="checkbox"/>
A-Length	<input type="checkbox"/>	Discard	<input checked="" type="checkbox"/>	L-Genet	<input type="checkbox"/>	Nut	<input type="checkbox"/>	RCountL	<input type="checkbox"/>	sample	<input type="checkbox"/>
A-Oto	<input type="checkbox"/>	EBKG	<input type="checkbox"/>	L-Gut	<input type="checkbox"/>	Ovary	<input type="checkbox"/>	Recovery	<input type="checkbox"/>	sample	<input type="checkbox"/>
Asound	<input type="checkbox"/>	EK500	<input type="checkbox"/>	L-Hist	<input type="checkbox"/>	PAR	<input type="checkbox"/>	ScanMar	<input type="checkbox"/>	sample	<input type="checkbox"/>
A-Wght	<input type="checkbox"/>	Fluor	<input type="checkbox"/>	Live	<input type="checkbox"/>	PhytoF	<input type="checkbox"/>	Shrink	<input type="checkbox"/>	sample	<input type="checkbox"/>
Brain	<input type="checkbox"/>	J-Genet	<input type="checkbox"/>	L-Musc	<input type="checkbox"/>	POC	<input type="checkbox"/>	SSF	<input type="checkbox"/>	sample	<input type="checkbox"/>
CAT	<input type="checkbox"/>	J-Gut	<input type="checkbox"/>	L-Oto	<input type="checkbox"/>	Pred	<input type="checkbox"/>	Strip	<input type="checkbox"/>	sample	<input type="checkbox"/>

## CTDB Bottle Sample info

please record all samples collected (each bottle should have its own record)

Depth	Chlor	Nut	MZ	other	other
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	x
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	x
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	x
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	x
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	x
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	x

Depth	Chlor	Nut	MZ	other	other
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	x
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	x
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	x
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	x
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	x
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	x

Gear LOBON Net 1 Mesh 153 um

please see FOCI Field Manual for Gear abbreviations

Performance
good
quest
fail
lost
(explain if not good)

Purpose
gridpre
grid
gridpost
diel
drift
phys
plnksurv
juvsurv
adult
gear
other
(explain)

Depth
min.
max.
Wire Out
min.
max.

Flowmeter
meter # <u>3107</u>
final rev. <u>84553</u>
initial rev. <u>83021</u>
Total <u>1532</u>

Tow Time
mess. net 1
at depth
haul in
mess. net 2
Total

## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

A-Genet	<input type="checkbox"/>	Brain	<input type="checkbox"/>	J-Length	<input type="checkbox"/>	L-Gut	<input type="checkbox"/>	QToF	<input type="checkbox"/>	fish removed	Y / N
A-Gut	<input type="checkbox"/>	CAT	<input type="checkbox"/>	J-Oto	<input type="checkbox"/>	L-Hist	<input type="checkbox"/>	QTowS	<input type="checkbox"/>	RCountL	<input type="checkbox"/>
A-Length	<input type="checkbox"/>	Discard	<input checked="" type="checkbox"/>	J-Wght	<input type="checkbox"/>	L-Musc	<input type="checkbox"/>	Pred	<input type="checkbox"/>	Shrink	<input type="checkbox"/>
A-Oto	<input type="checkbox"/>	J-Genet	<input type="checkbox"/>	L-Bloch	<input type="checkbox"/>	L-Oto	<input type="checkbox"/>	RCountE	<input type="checkbox"/>	sample	<input type="checkbox"/>
A-Wght	<input type="checkbox"/>	J-Gut	<input type="checkbox"/>	L-Genet	<input type="checkbox"/>	Merist	<input type="checkbox"/>	RCountJ	<input type="checkbox"/>	sample	<input type="checkbox"/>



# Cruise Operations Database

FOCI Cruise MF62-05 (e.g. 4MF99) Station M2-W Haul 1 Data Entered            Error Checked            Scientist             
Alt. Station BON 010 (e.g. HJ45 or FOX058)

Ships Cruise MF62-05 (e.g. MF99-08) GMT-Date 3-May-02 GM-Time 1120 Bottom Depth 73 m

DLat 56 MLat 45.33 °N DLong 164 MLong 20.34 °W

Haul Comments CTD 039

Gear 60 BON Net 1 Mesh 333 um

please see FOCI Field Manual for Gear abbreviations

Performance
good
quest
fail
lost
(explain if not good)

Purpose
gridpre
grid
gridpost
diel
drift
phys
plnksurv
juvsurv
adult
gear
other
(explain)

Depth
min.
max.
Wire Out
min.
max.

Flowmeter
meter # <u>8990</u>
final rev. <u>66615</u>
initial rev. <u>64639</u>
Total <u>1976</u>

Tow Time
mess. net 0
at depth <u>2:29</u>
haul in
mess. net 1
Total <u>6:15</u>

Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

Absorb	ChLAM	J-Length	Lugols	QToF	fish removed Y / N
ADCP	Chlor	J-Oto	Merist	QTowS	TSG
A-Genet	CTD	J-Wght	MZ	RCountE	VideoNet
A-Gut	Deploy	L-Bioch	NetFluor	RCountJ	XBT
A-Length	Discard	L-Genet	Nut	RCountL	sample
A-Oto	EBKG	L-Gut	Ovary	Recovery	sample
Asound	EK500	L-Hist	PAR	ScanMar	sample
A-Wght	Fluor	Live	PhytoF	Shrink	sample
Brain	J-Genet	L-Musc	POC	SSF	sample
CAT	J-Gut	L-Oto	Pred	Strip	sample

## CTDB Bottle Sample info

please record all samples collected (each bottle should have its own record)

Depth	Chlor	Nut	MZ	other	other
m	volume	bottle #	X	X	X
m	volume	bottle #	X	X	X
m	volume	bottle #	X	X	X
m	volume	bottle #	X	X	X
m	volume	bottle #	X	X	X
m	volume	bottle #	X	X	X

Depth	Chlor	Nut	MZ	other	other
m	volume	bottle #	X	X	X
m	volume	bottle #	X	X	X
m	volume	bottle #	X	X	X
m	volume	bottle #	X	X	X
m	volume	bottle #	X	X	X
m	volume	bottle #	X	X	X

Gear 20 BON Net 1 Mesh 153 um

please see FOCI Field Manual for Gear abbreviations

Performance
good
quest
fail
lost
(explain if not good)

Purpose
gridpre
grid
gridpost
diel
drift
phys
plnksurv
juvsurv
adult
gear
other
(explain)

Depth
min.
max.
Wire Out
min.
max.

Flowmeter
meter # <u>3107</u>
final rev. <u>84977</u>
initial rev. <u>64553</u>
Total <u>424</u>

Tow Time
mess. net 1
at depth
haul in
mess. net 2
Total

Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

A-Genet
A-Gut
A-Length
A-Oto
A-Wght

Brain
CAT
Discard
J-Genet
J-Gut

J-Length
J-Oto
J-Wght
L-Bioch
L-Genet

L-Gut
L-Hist
L-Musc
L-Oto
Merist

QToF
QTowS
Pred
RCountE
RCountJ

fish removed Y / N
RCountL
Shrink
sample
sample

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_

Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

sample ☐

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 4269  
final rev. 91924  
initial rev. 90136  
Total 17.54

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

sample ☐

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

sample ☐

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 9851  
final rev. 49080  
initial rev. 49278  
Total 502

Tow Time

Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

sample ☐

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

# Cruise Operations Database

FOCI Cruise MF02-05 (e.g. 4MF99) Station M2-N Haul 2 FOCI Station BON 011 Alt. Station BON 011 (e.g. HU45 or FOX058)

Ships Cruise MF02-05 (e.g. MF99-08) GMT-Date 7-May-02 GM-Time 1306 Bottom Depth 70 m

DLat 53 MLat 1.02 °N DLong 164 MLong 13.02 °W

Haul Comments

Gear <u>60 BON</u>	Net <u>1</u>	Mesh <u>333</u>	um	please see FOCI Field Manual for Gear abbreviations	
<div><b>Performance</b> good <input type="checkbox"/> quest <input type="checkbox"/> fail <input type="checkbox"/> lost <input type="checkbox"/> (explain if not good)</div>	<div><b>Purpose</b> gridpre <input type="checkbox"/> grid <input type="checkbox"/> gridpost <input type="checkbox"/> diel <input type="checkbox"/> drift <input type="checkbox"/> phys <input type="checkbox"/></div>	<div><b>Depth</b> min. <input type="text"/> max. <input type="text"/>  <b>Wire Out</b> min. <input type="text"/> max. <input type="text"/></div>	<div><b>Flowmeter</b> meter # <u>890</u> final rev. <u>70486</u> initial rev. <u>66615</u> <b>Total</b> <u>3871</u></div>	<div><b>Tow Time</b> mess. net 0 <input type="text"/> at depth <u>2:27</u> haul in <input type="text"/> mess. net 1 <input type="text"/> <b>Total</b> <u>6:38</u></div>	

**Samples Collected**  
circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

Absorb <input type="checkbox"/>	ChLAM <input type="checkbox"/>	J-Length <input type="checkbox"/>	Lugols <input type="checkbox"/>	QToF <input type="checkbox"/>	fish removed Y / N
ADCP <input type="checkbox"/>	Chlor <input type="checkbox"/>	J-Oto <input type="checkbox"/>	Merist <input type="checkbox"/>	QTowS <input type="checkbox"/>	TSG <input type="checkbox"/>
A-Genet <input type="checkbox"/>	CTD <input type="checkbox"/>	J-Wght <input type="checkbox"/>	MZ <input type="checkbox"/>	RCountE <input type="checkbox"/>	VideoNet <input type="checkbox"/>
A-Gut <input type="checkbox"/>	Deploy <input type="checkbox"/>	L-Bloch <input type="checkbox"/>	NetFluor <input type="checkbox"/>	RCountJ <input type="checkbox"/>	XBT <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	L-Genet <input type="checkbox"/>	Nut <input type="checkbox"/>	RCountL <input type="checkbox"/>	sample <input type="checkbox"/>
A-Oto <input type="checkbox"/>	EBKG <input type="checkbox"/>	L-Gut <input type="checkbox"/>	Ovary <input type="checkbox"/>	Recovery <input type="checkbox"/>	sample <input type="checkbox"/>
Asound <input type="checkbox"/>	EK500 <input type="checkbox"/>	L-Hist <input type="checkbox"/>	PAR <input type="checkbox"/>	ScanMar <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	Fluor <input type="checkbox"/>	Live <input type="checkbox"/>	PhytoF <input type="checkbox"/>	Shrink <input type="checkbox"/>	sample <input type="checkbox"/>
Brain <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Musc <input type="checkbox"/>	POC <input type="checkbox"/>	SSF <input type="checkbox"/>	sample <input type="checkbox"/>
CAT <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Oto <input type="checkbox"/>	Pred <input type="checkbox"/>	Strip <input type="checkbox"/>	sample <input type="checkbox"/>

## CTDB Bottle

### Sample info

please record all samples collected (each bottle should have its own record)

Depth	Chlor	Nut	MZ	other	Depth	Chlor	Nut	MZ	other
m	volume	bottle #	X	X	m	volume	bottle #	X	X
m	volume	bottle #	X	X	m	volume	bottle #	X	X
m	volume	bottle #	X	X	m	volume	bottle #	X	X
m	volume	bottle #	X	X	m	volume	bottle #	X	X
m	volume	bottle #	X	X	m	volume	bottle #	X	X

Gear 20 BON Net 1 Mesh 153 um please see FOCI Field Manual for Gear abbreviations

## Performance

good ☐  
quest ☐  
fail ☐  
lost ☐  
(explain if not good)

<b>Purpose</b> gridpre <input type="checkbox"/> grid <input type="checkbox"/> gridpost <input type="checkbox"/> diel <input type="checkbox"/> drift <input type="checkbox"/> phys <input type="checkbox"/>	<b>planksurv</b> juvsurv <input type="checkbox"/> adult <input type="checkbox"/> gear <input type="checkbox"/> other <input type="checkbox"/> (explain)
--	--

<b>Depth</b> min. <input type="text"/> max. <input type="text"/>  <b>Wire Out</b> min. <input type="text"/> max. <input type="text"/>
---

<b>Flowmeter</b> meter # <u>3107</u> final rev. <u>86673</u> initial rev. <u>84974</u> <b>Total</b> <u>1696</u>
---

<b>Tow Time</b> mess. net 1 <input type="text"/> at depth <input type="text"/> haul in <input type="text"/> mess. net 2 <input type="text"/> <b>Total</b> <input type="text"/>
---

## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

A-Genet <input type="checkbox"/>	Brain <input type="checkbox"/>	J-Length <input type="checkbox"/>	L-Gut <input type="checkbox"/>	QToF <input type="checkbox"/>	fish removed Y / N
A-Gut <input type="checkbox"/>	CAT <input type="checkbox"/>	J-Oto <input type="checkbox"/>	L-Hist <input type="checkbox"/>	QTowS <input type="checkbox"/>	RCountL <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	J-Wght <input type="checkbox"/>	L-Musc <input type="checkbox"/>	Pred <input type="checkbox"/>	Shrink <input type="checkbox"/>
A-Oto <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Bloch <input type="checkbox"/>	L-Oto <input type="checkbox"/>	RCountE <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Genet <input type="checkbox"/>	Merist <input type="checkbox"/>	RCountJ <input type="checkbox"/>	sample <input type="checkbox"/>

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y / N

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 4269  
final rev. 93898  
initial rev. 91924  
Total 1974

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y / N

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

J-Oto ☐

J-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y / N

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 9851  
final rev. 51478  
initial rev. 49780  
Total 1698

Tow Time

Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y / N

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

# Cruise Operations Database

**Data Entered**\_\_\_\_ **Error Checked**\_\_\_\_ **Scientist**\_\_\_\_

FOCI Cruise	Station	Haul	FOCI Station	Alt. Station
(e.g. 4MF99)	<u>32</u>	<u>1</u>		<u>BONO12</u> (e.g. CTD015 or MOC004)
				(e.g. HJ45 or FOX058)

Ships Cruise ME02-05 08-May-02 0235 Bottom Depth m  
(e.g. MF99-08) (e.g. 20-May-99)

DLat 56 MLat 51.69 °N DLong 164 MLong 02.72 °W

### Haul Comments:

**Gear** 6030N **Net** 1 **Mesh** 333 **um** please see FOCI Field Manual for Gear abbreviations

**Performance**  
good  
quest  
fail  
lost  
(*explain if  
not good*)

Purpose	
gridpre	plinksurv
grid	jvusurv
gridpost	adult
diel	gear
drift	other
phys	(explain)

Depth		Wire Out	
min.	0 m	min.	0 m
max.	63 m	max.	83 m

Flowmeter	
meter #	8990
final rev.	71970
initial rev.	30486
Total	1484

**please see FOCI Field Manual for Gear abbreviations**

<b>Tow Time</b>	_____
mess. net 0	_____
at depth	2:24
haul in	_____
mess. net 1	_____
<b>Total</b>	_____

## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

Absorb	
ADCP	
A-Genet	
A-Gut	
A-Length	
A-Oto	
A-sound	
A-Wght	
Brain	
CAT	

Category	Count
ChLAM	10
Chlor	8
CTD	7
Deploy	6
Discard	15
EBKG	5
EK500	4
Fluor	3
J-Genet	2
J-Gut	1

Variable	Unit
J-Length	Lugol
J-Oto	Merlin
J-Wght	M
L-Bioch	NetFlu
L-Genet	N
L-Gut	Ova
L-Hist	PA
Live	Phyto
L-Musc	PO
L-Oto	Pre

Variable	Mean	SD	Min	Max
Lugols	0.00	0.00	0.00	0.00
Merist	0.00	0.00	0.00	0.00
MZ	0.00	0.00	0.00	0.00
etFluor	0.00	0.00	0.00	0.00
Nut	0.00	0.00	0.00	0.00
Ovary	0.00	0.00	0.00	0.00
PAR	0.00	0.00	0.00	0.00
PhytoF	0.00	0.00	0.00	0.00
POC	0.00	0.00	0.00	0.00
Pred	0.00	0.00	0.00	0.00

	$Y/N$	$fish\ removed$
QTowF	<input type="checkbox"/>	
QTowS	<input type="checkbox"/>	TSG
RCountE	<input type="checkbox"/>	VideoNet
RCountJ	<input type="checkbox"/>	XBT
RCountL	<input type="checkbox"/>	sample
Recovery	<input type="checkbox"/>	sample
ScanMar	<input type="checkbox"/>	sample
Shrink	<input type="checkbox"/>	sample
SSF	<input type="checkbox"/>	sample
Strip	<input type="checkbox"/>	sample

**CTDB Bottle**  
**Sample info**

***please record all  
samples collected  
(each bottle should  
have its own record)***

[illegible][illegible]

**Gear** 20BON **Net** 1 **Mesh** 153 **um** um please see FOCI Field Manual for Gear abbreviations

**Performance**  
good  
quest  
fail  
lost  
*(explain if  
not good)*

Purpose	
gridpre	plinksurv
grid	juvsurv
gridpost	adult
diel	gear
drift	other
phys	(explain)

Depth	
min.	m
max.	m

  

Wire Out	
min.	m
max.	m

Flowmeter	
meter #	2107
final rev.	18036
initial rev.	86633
Total	1363

**Tow Time**

mess. net 1 \_\_\_\_\_

at depth \_\_\_\_\_

haul in \_\_\_\_\_

mess. net 2 \_\_\_\_\_

**Total** \_\_\_\_\_

## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

Dataset	Number of Genes
A-Genet	100
A-Gut	80
A-Length	70
A-Oto	60
A-Wght	50

Category	Count
Brain	1
CAT	1
Discard	2
J-Genet	1
J-Gut	1

	L-G	L-Hi	L-Mus	L-O	Merlin
J-Length	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J-Oto	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J-Wght	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L-Bioch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L-Genet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Category	Number of Genes
L-Gut	2
L-Hist	2
L-Musc	2
L-Oto	2
Merist	2

<input type="checkbox"/> QToWF	<input type="checkbox"/>	<i>fish removed</i>	<input type="checkbox"/>	<i>Y / N</i>
<input type="checkbox"/> QTowS	<input type="checkbox"/>	RCountL	<input type="checkbox"/>	
<input type="checkbox"/> Pred	<input type="checkbox"/>	Shrink	<input type="checkbox"/>	
<input type="checkbox"/> RCountE	<input type="checkbox"/>	sample	<input type="checkbox"/>	
<input type="checkbox"/> RCountJ	<input type="checkbox"/>	sample	<input type="checkbox"/>	

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear \_\_\_\_\_

Net \_\_\_\_\_

Mesh \_\_\_\_\_ um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear 60 BON

Net 2

Mesh 333 um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 4269  
final rev. 958<sup>3</sup>24  
initial rev. 93898  
Total 1486

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear 60 BON

Net 2

Mesh 333 um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

J-Oto ☐

J-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear \_\_\_\_\_

Net \_\_\_\_\_

Mesh \_\_\_\_\_ um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 9851  
final rev. 52395  
initial rev. 51478  
Total 1317

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear 60 BON

Net 2

Mesh 153 um

please see FOCI Field Manual for Gear abbreviations



# Cruise Operations Database

Data Entered \_\_\_\_\_ Error Checked \_\_\_\_\_ Scientist \_\_\_\_\_

FOCI Cruise \_\_\_\_\_ Station M3-601 Haul 1 FOCI Station \_\_\_\_\_ Alt. Station BONO13  
(e.g. 4MF99) (e.g. HJ45 or FOX058) (e.g. CTD015 or MOC004)

Ships Cruise MF02-05 GMT-Date 08-May-02 GM-Time 12:52 Bottom Depth 110.5 m  
(e.g. MF99-09) (e.g. 20-May-99)

DLat S6 MLat 9.758 °N DLong 16L MLong S.5 °W

Haul Comments \_\_\_\_\_

Gear LOBON Net 1 Mesh 333 um please see FOCI Field Manual for Gear abbreviations

**Performance**  
good \_\_\_\_\_  
quest \_\_\_\_\_  
fail \_\_\_\_\_  
lost \_\_\_\_\_  
(explain if not good)

**Purpose**  
gridpre \_\_\_\_\_ plnksurv \_\_\_\_\_  
grid \_\_\_\_\_ juvsurv \_\_\_\_\_  
gridpost \_\_\_\_\_ adult \_\_\_\_\_  
diet \_\_\_\_\_ gear \_\_\_\_\_  
drift \_\_\_\_\_ other \_\_\_\_\_  
phys \_\_\_\_\_ (explain)

**Depth**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m  
**Wire Out**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

**Flowmeter**  
meter # 8990  
final rev. 74269  
initial rev. 71930  
**Total** 2299

**Tow Time**  
mess. net 0 \_\_\_\_\_  
at depth 3:34  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
**Total** 9:35

## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

Absorb <input type="checkbox"/>	ChLAM <input type="checkbox"/>	J-Length <input type="checkbox"/>	Lugols <input type="checkbox"/>	QTowF <input type="checkbox"/>	fish removed Y / N
ADCP <input type="checkbox"/>	Chlor <input type="checkbox"/>	J-Oto <input type="checkbox"/>	Merist <input type="checkbox"/>	QTowS <input type="checkbox"/>	TSG <input type="checkbox"/>
A-Genet <input type="checkbox"/>	CTD <input type="checkbox"/>	J-Wght <input type="checkbox"/>	MZ <input type="checkbox"/>	RCountE <input type="checkbox"/>	VideoNet <input type="checkbox"/>
A-Gut <input type="checkbox"/>	Deploy <input type="checkbox"/>	L-Bloch <input type="checkbox"/>	NetFluor <input type="checkbox"/>	RCountJ <input type="checkbox"/>	XBT <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	L-Genet <input type="checkbox"/>	Nut <input type="checkbox"/>	RCountL <input type="checkbox"/>	sample <input type="checkbox"/>
A-Oto <input type="checkbox"/>	EBKG <input type="checkbox"/>	L-Gut <input type="checkbox"/>	Ovary <input type="checkbox"/>	Recovery <input type="checkbox"/>	sample <input type="checkbox"/>
Asound <input type="checkbox"/>	EK500 <input type="checkbox"/>	L-Hist <input type="checkbox"/>	PAR <input type="checkbox"/>	ScanMar <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	Fluor <input type="checkbox"/>	Live <input type="checkbox"/>	PhytoF <input type="checkbox"/>	Shrink <input type="checkbox"/>	sample <input type="checkbox"/>
Brain <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Musc <input type="checkbox"/>	POC <input type="checkbox"/>	SSF <input type="checkbox"/>	sample <input type="checkbox"/>
CAT <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Oto <input type="checkbox"/>	Pred <input type="checkbox"/>	Strip <input type="checkbox"/>	sample <input type="checkbox"/>

## CTDB Bottle Sample info

please record all samples collected (each bottle should have its own record)

Depth	Chlor	Nut	MZ	other
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x

Depth	Chlor	Nut	MZ	other
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x

Gear LOBON Net 1 Mesh 153 um

please see FOCI Field Manual for Gear abbreviations

**Performance**  
good \_\_\_\_\_  
quest \_\_\_\_\_  
fail \_\_\_\_\_  
lost \_\_\_\_\_  
(explain if not good)

**Purpose**  
gridpre \_\_\_\_\_ plnksurv \_\_\_\_\_  
grid \_\_\_\_\_ juvsurv \_\_\_\_\_  
gridpost \_\_\_\_\_ adult \_\_\_\_\_  
diet \_\_\_\_\_ gear \_\_\_\_\_  
drift \_\_\_\_\_ other \_\_\_\_\_  
phys \_\_\_\_\_ (explain)

**Depth**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m  
**Wire Out**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

**Flowmeter**  
meter # 3107  
final rev. 90067  
initial rev. 88036  
**Total** 2031

**Tow Time**  
mess. net 1 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 2 \_\_\_\_\_  
**Total** \_\_\_\_\_

## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

A-Genet <input type="checkbox"/>	Brain <input type="checkbox"/>	J-Length <input type="checkbox"/>	L-Gut <input type="checkbox"/>	QTowF <input type="checkbox"/>	fish removed Y / N
A-Gut <input type="checkbox"/>	CAT <input type="checkbox"/>	J-Oto <input type="checkbox"/>	L-Hist <input type="checkbox"/>	QTowS <input type="checkbox"/>	RCountL <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	J-Wght <input type="checkbox"/>	L-Musc <input type="checkbox"/>	Pred <input type="checkbox"/>	Shrink <input type="checkbox"/>
A-Oto <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Bloch <input type="checkbox"/>	L-Oto <input type="checkbox"/>	RCountE <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Genet <input type="checkbox"/>	Merist <input type="checkbox"/>	RCountJ <input type="checkbox"/>	sample <input type="checkbox"/>

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_

Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear \_\_\_\_\_

Net \_\_\_\_\_

Mesh \_\_\_\_\_ um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Gear LOBON

Net 2

Mesh 333 um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 4269  
final rev. 97705  
initial rev. 95384

Total 2321

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear LOBON

Net 2

Mesh 333 um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Gear \_\_\_\_\_

Net \_\_\_\_\_

Mesh \_\_\_\_\_ um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_

Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear \_\_\_\_\_

Net \_\_\_\_\_

Mesh \_\_\_\_\_ um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Gear \_\_\_\_\_

Net \_\_\_\_\_

Mesh \_\_\_\_\_ um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 9851  
final rev. 54718  
initial rev. 52395

Total 1923

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear LOBON

Net 2

Mesh 153 um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Gear \_\_\_\_\_

Net \_\_\_\_\_

Mesh \_\_\_\_\_ um

please see FOCI Field Manual for Gear abbreviations

# Cruise Operations Database

Data Entered \_\_\_\_\_ Error Checked \_\_\_\_\_ Scientist \_\_\_\_\_

FOCI Cruise MF02-05 Station M3-NY Haul \_\_\_\_\_ FOCI Station \_\_\_\_\_ Alt. Station BON014  
(e.g. 4MF99) (e.g. HJ45 or FOX058) (e.g. CTD015 or MOC004)

Ships Cruise MF02-05 GMT-Date 08-May-02 GM-Time 15:04 Bottom Depth 116.9 m  
(e.g. MF99-08) (e.g. 20-May-99)

DLat 56 MLat 12.523 °N DLong 166 MLong 29.7 °W

Haul Comments \_\_\_\_\_

Gear <u>60BON</u>	Net <u>1</u>	Mesh <u>333</u>	um	please see FOCI Field Manual for Gear abbreviations	
<div><b>Performance</b> good quest fail lost (explain if not good)</div>	<div><b>Purpose</b> gridpre grid gridpost diel drift phys</div>	<div><b>Depth</b> min. _____ m max. _____ m  Wire Out min. _____ m max. _____ m</div>	<div><b>Flowmeter</b> meter # <u>8990</u> final rev. <u>76761</u> initial rev. <u>74269</u>  Total <u>2492</u></div>	<div><b>Tow Time</b> mess. net 0 _____ at depth <u>3:47</u> haul in _____ mess. net 1 _____  Total <u>11:20</u></div>	

**Samples Collected**  
circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

Absorb <input type="checkbox"/>	ChLAM <input type="checkbox"/>	J-Length <input type="checkbox"/>	Lugols <input type="checkbox"/>	QToF <input type="checkbox"/>	fish removed Y / N
ADCP <input type="checkbox"/>	Chlor <input type="checkbox"/>	J-Oto <input type="checkbox"/>	Merist <input type="checkbox"/>	QTowS <input type="checkbox"/>	TSG <input type="checkbox"/>
A-Genet <input type="checkbox"/>	CTD <input type="checkbox"/>	J-Wght <input type="checkbox"/>	MZ <input type="checkbox"/>	RCountE <input type="checkbox"/>	VideoNet <input type="checkbox"/>
A-Gut <input type="checkbox"/>	Deploy <input type="checkbox"/>	L-Bloch <input type="checkbox"/>	NetFluor <input type="checkbox"/>	RCountJ <input type="checkbox"/>	XBT <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	L-Genet <input type="checkbox"/>	Nut <input type="checkbox"/>	RCountL <input type="checkbox"/>	sample <input type="checkbox"/>
A-Oto <input type="checkbox"/>	EBKG <input type="checkbox"/>	L-Gut <input type="checkbox"/>	Ovary <input type="checkbox"/>	Recovery <input type="checkbox"/>	sample <input type="checkbox"/>
Asound <input type="checkbox"/>	EK500 <input type="checkbox"/>	L-Hist <input type="checkbox"/>	PAR <input type="checkbox"/>	ScanMar <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	Fluor <input type="checkbox"/>	Live <input type="checkbox"/>	PhytoF <input type="checkbox"/>	Shrink <input type="checkbox"/>	sample <input type="checkbox"/>
Brain <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Musc <input type="checkbox"/>	POC <input type="checkbox"/>	SSF <input type="checkbox"/>	sample <input type="checkbox"/>
CAT <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Oto <input type="checkbox"/>	Pred <input type="checkbox"/>	Strip <input type="checkbox"/>	sample <input type="checkbox"/>

## CTDB Bottle Sample info

please record all samples collected (each bottle should have its own record)

Depth	Chlor	Nut	MZ	other	Depth	Chlor	Nut	MZ	other
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Gear 20BON Net 1 Mesh 153 um

please see FOCI Field Manual for Gear abbreviations

**Performance**  
good  
quest  
fail  
lost  
(explain if not good)

**Purpose**  
gridpre  
grid  
gridpost  
diel  
drift  
phys

**plnksurv**  
juvsurv  
adult  
gear  
other  
(explain)

**Depth**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m  
  
Wire Out  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

**Flowmeter**  
meter # 3107  
final rev. 92451  
initial rev. 90067  
  
Total 2384

**Tow Time**  
mess. net 1 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 2 \_\_\_\_\_  
  
Total \_\_\_\_\_

## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

A-Genet <input type="checkbox"/>	Brain <input type="checkbox"/>	J-Length <input type="checkbox"/>	L-Gut <input type="checkbox"/>	QToF <input type="checkbox"/>	fish removed Y / N
A-Gut <input type="checkbox"/>	CAT <input type="checkbox"/>	J-Oto <input type="checkbox"/>	L-Hist <input type="checkbox"/>	QTowS <input type="checkbox"/>	RCountL <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	J-Wght <input type="checkbox"/>	L-Musc <input type="checkbox"/>	Pred <input type="checkbox"/>	Shrink <input type="checkbox"/>
A-Oto <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Bloch <input type="checkbox"/>	L-Oto <input type="checkbox"/>	RCountE <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Genet <input type="checkbox"/>	Merist <input type="checkbox"/>	RCountJ <input type="checkbox"/>	sample <input type="checkbox"/>

Gear \_\_\_\_\_ Net \_\_\_\_\_ Mesh \_\_\_\_\_ um \_\_\_\_\_ please see FOCI Field Manual for Gear abbreviations

<b>Performance</b> good quest fail lost (explain if not good)	<b>Purpose</b> gridpre grid gridpost diel drift phys	<b>Depth</b> min. _____ m max. _____ m <b>Wire Out</b> min. _____ m max. _____ m	<b>Flowmeter</b> meter # _____ final rev. _____ initial rev. _____ <b>Total</b> _____	<b>Tow Time</b> mess. net 0 _____ at depth _____ haul in _____ mess. net 1 _____ <b>Total</b> _____
--	--	---	---	--

A-Genet ☐ Brain ☐ J-Length ☐ L-Gut ☐ QTowF ☐ fish removed Y/N ☐  
A-Gut ☐ CAT ☐ L-Oto ☐ L-Hist ☐ QTOWS ☐ RCountL ☐  
A-Length ☐ Discard ☒ L-Wght ☐ L-Musc ☐ Pred ☐ Shrink ☐  
A-Oto ☐ J-Genet ☐ L-Bioch ☐ L-Oto ☐ RCOUNT ☐ sample ☐  
A-Wght ☐ J-Gut ☐ L-Genet ☐ Merist ☐ RCountJ ☐ sample ☐

Gear 60BON Net 2 Mesh 333 um \_\_\_\_\_ please see FOCI Field Manual for Gear abbreviations

<b>Performance</b> good quest fail lost (explain if not good)	<b>Purpose</b> gridpre grid gridpost diel drift phys	<b>Depth</b> min. _____ m max. _____ m <b>Wire Out</b> min. _____ m max. _____ m	<b>Flowmeter</b> meter # <u>4269</u> final rev. <u>100212</u> initial rev. <u>97405</u> <b>Total</b> <u>2504</u>	<b>Tow Time</b> mess. net 0 _____ at depth _____ haul in _____ mess. net 1 _____ <b>Total</b> _____
--	--	---	--	--

A-Genet ☐ Brain ☐ J-Length ☐ L-Gut ☐ QTowF ☐ fish removed Y/N ☐  
A-Gut ☐ CAT ☐ L-Oto ☐ L-Hist ☐ QTOWS ☐ RCountL ☐  
A-Length ☐ Discard ☒ L-Wght ☐ L-Musc ☐ Pred ☐ Shrink ☐  
A-Oto ☐ J-Genet ☐ L-Bioch ☐ L-Oto ☐ RCOUNT ☐ sample ☐  
A-Wght ☐ J-Gut ☐ L-Genet ☐ Merist ☐ RCountJ ☐ sample ☐

Gear \_\_\_\_\_ Net \_\_\_\_\_ Mesh \_\_\_\_\_ um \_\_\_\_\_ please see FOCI Field Manual for Gear abbreviations

<b>Performance</b> good quest fail lost (explain if not good)	<b>Purpose</b> gridpre grid gridpost diel drift phys	<b>Depth</b> min. _____ m max. _____ m <b>Wire Out</b> min. _____ m max. _____ m	<b>Flowmeter</b> meter # _____ final rev. _____ initial rev. _____ <b>Total</b> _____	<b>Tow Time</b> <b>Total</b> _____
--	--	---	---	---------------------------------------

A-Genet ☐ Brain ☐ J-Length ☐ L-Gut ☐ QTowF ☐ fish removed Y/N ☐  
A-Gut ☐ CAT ☐ J-Oto ☐ L-Hist ☐ QTOWS ☐ RCountL ☐  
A-Length ☐ Discard ☒ J-Wght ☐ L-Musc ☐ Pred ☐ Shrink ☐  
A-Oto ☐ J-Genet ☐ L-Bioch ☐ L-Oto ☐ RCOUNT ☐ sample ☐  
A-Wght ☐ J-Gut ☐ L-Genet ☐ Merist ☐ RCountJ ☐ sample ☐

Gear ZOBON Net 2 Mesh 153 um \_\_\_\_\_ please see FOCI Field Manual for Gear abbreviations

<b>Performance</b> good quest fail lost (explain if not good)	<b>Purpose</b> gridpre grid gridpost diel drift phys	<b>Depth</b> min. _____ m max. _____ m <b>Wire Out</b> min. _____ m max. _____ m	<b>Flowmeter</b> meter # <u>9851</u> final rev. <u>56903</u> initial rev. <u>54718</u> <b>Total</b> <u>2065</u>	<b>Tow Time</b> <b>Total</b> _____
--	--	---	---	---------------------------------------

A-Genet ☐ Brain ☐ J-Length ☐ L-Gut ☐ QTowF ☐ fish removed Y/N ☐  
A-Gut ☐ CAT ☐ L-Oto ☐ L-Hist ☐ QTOWS ☐ RCountL ☐  
A-Length ☐ Discard ☒ L-Wght ☐ L-Musc ☐ Pred ☐ Shrink ☐  
A-Oto ☐ J-Genet ☐ L-Bioch ☐ L-Oto ☐ RCOUNT ☐ sample ☐  
A-Wght ☐ J-Gut ☐ L-Genet ☐ Merist ☐ RCountJ ☐ sample ☐



Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 126  
final rev. 02817  
initial rev. 00212  
Total 26.05

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
Total \_\_\_\_\_

Tow Time

Total \_\_\_\_\_

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

J-Oto ☐

J-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

pinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 9851  
final rev. 59221  
initial rev. 56903  
Total 2238

Tow Time

Total \_\_\_\_\_

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTOWS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

# Cruise Operations Database

Data Entered \_\_\_\_\_ Error Checked \_\_\_\_\_ Scientist \_\_\_\_\_

FOCI Cruise \_\_\_\_\_ Station M3-South Haul FOCI Station \_\_\_\_\_ Alt. Station BON 016  
(e.g. 4MF99) (e.g. HJ45 or FOX058) (e.g. CTD015 or MOC004)

Ships Cruise MF02-05 GMT-Date 09-MAY-02 GM-Time 17.54 Bottom Depth 1228 m  
(e.g. MF99-08) (e.g. 20-May-98)

DLat SS MLat S4.996 °N DLong 166 MLong 10.0 °W

Haul Comments \_\_\_\_\_

Gear <u>LOBON</u>	Net <u>1</u>	Mesh <u>333</u>	um	please see FOCI Field Manual for Gear abbreviations	
<div><b>Performance</b> good <input type="checkbox"/> quest <input type="checkbox"/> fail <input type="checkbox"/> lost <input type="checkbox"/> (explain if not good)</div>	<div><b>Purpose</b> gridpre <input type="checkbox"/> grid <input type="checkbox"/> gridpost <input type="checkbox"/> diel <input type="checkbox"/> drift <input type="checkbox"/> phys <input type="checkbox"/></div>	<div><b>Depth</b> min. _____ m max. _____ m <b>Wire Out</b> min. _____ m max. _____ m</div>	<div><b>Flowmeter</b> meter # <u>8990</u> final rev. <u>81753</u> initial rev. <u>79584</u> Total <u>2169</u></div>	<div><b>Tow Time</b> mess. net 0 _____ at depth <u>3:47</u> haul in _____ mess. net 1 _____ Total <u>10:15</u></div>	

## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

Absorb <input type="checkbox"/>	ChLAM <input type="checkbox"/>	J-Length <input type="checkbox"/>	Lugols <input type="checkbox"/>	QTowF <input type="checkbox"/>	fish removed Y / N
ADCP <input type="checkbox"/>	Chlor <input type="checkbox"/>	J-Oto <input type="checkbox"/>	Merist <input type="checkbox"/>	QTowS <input type="checkbox"/>	TSG <input type="checkbox"/>
A-Genet <input type="checkbox"/>	CTD <input type="checkbox"/>	J-Wght <input type="checkbox"/>	MZ <input type="checkbox"/>	RCountE <input type="checkbox"/>	VideoNet <input type="checkbox"/>
A-Gut <input type="checkbox"/>	Deploy <input type="checkbox"/>	L-Bioch <input type="checkbox"/>	NetFluor <input type="checkbox"/>	RCountJ <input type="checkbox"/>	XBT <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	L-Genet <input type="checkbox"/>	Nut <input type="checkbox"/>	RCountL <input type="checkbox"/>	sample <input type="checkbox"/>
A-Oto <input type="checkbox"/>	EBKG <input type="checkbox"/>	L-Gut <input type="checkbox"/>	Ovary <input type="checkbox"/>	Recovery <input type="checkbox"/>	sample <input type="checkbox"/>
Asound <input type="checkbox"/>	EK500 <input type="checkbox"/>	L-Hist <input type="checkbox"/>	PAR <input type="checkbox"/>	ScanMar <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	Fluor <input type="checkbox"/>	Live <input type="checkbox"/>	PhytoF <input type="checkbox"/>	Shrink <input type="checkbox"/>	sample <input type="checkbox"/>
Brain <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Musc <input type="checkbox"/>	POC <input type="checkbox"/>	SSF <input type="checkbox"/>	sample <input type="checkbox"/>
CAT <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Oto <input type="checkbox"/>	Pred <input type="checkbox"/>	Strip <input type="checkbox"/>	sample <input type="checkbox"/>

## CTDB Bottle

### Sample info

please record all samples collected (each bottle should have its own record)

Depth	Chlor	Nut	MZ	other
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x

Depth	Chlor	Nut	MZ	other
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x
m	volume	bottle #	x	x

<div><b>Performance</b> good <input type="checkbox"/> quest <input type="checkbox"/> fail <input type="checkbox"/> lost <input type="checkbox"/> (explain if not good)</div>	<div><b>Purpose</b> gridpre <input type="checkbox"/> grid <input type="checkbox"/> gridpost <input type="checkbox"/> diel <input type="checkbox"/> drift <input type="checkbox"/> phys <input type="checkbox"/></div>	<div><b>Depth</b> min. _____ m max. _____ m <b>Wire Out</b> min. _____ m max. _____ m</div>	<div><b>Flowmeter</b> meter # <u>3104</u> final rev. <u>96816</u> initial rev. <u>94808</u> Total <u>2008</u></div>	<div><b>Tow Time</b> mess. net 1 _____ at depth _____ haul in _____ mess. net 2 _____ Total _____</div>
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## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

A-Genet <input type="checkbox"/>	Brain <input type="checkbox"/>	J-Length <input type="checkbox"/>	L-Gut <input type="checkbox"/>	QTowF <input type="checkbox"/>	fish removed Y / N
A-Gut <input type="checkbox"/>	CAT <input type="checkbox"/>	J-Oto <input type="checkbox"/>	L-Hist <input type="checkbox"/>	QTowS <input type="checkbox"/>	RCountL <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	J-Wght <input type="checkbox"/>	L-Musc <input type="checkbox"/>	Pred <input type="checkbox"/>	Shrink <input type="checkbox"/>
A-Oto <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Bioch <input type="checkbox"/>	L-Oto <input type="checkbox"/>	RCountE <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Genet <input type="checkbox"/>	Merist <input type="checkbox"/>	RCountJ <input type="checkbox"/>	sample <input type="checkbox"/>

Performance

good  
quest  
fail  
lost  
(explain if  
not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_

Total \_\_\_\_\_

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

sample ☐

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if  
not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 4269  
final rev. 05134  
initial rev. 02814

Total 2319

Tow Time

mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

sample ☐

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if  
not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_

Total \_\_\_\_\_

Tow Time

Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

sample ☐

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

Performance

good  
quest  
fail  
lost  
(explain if  
not good)

Purpose

gridpre  
grid  
gridpost  
diel  
drift  
phys

plinksurv  
juvsurv  
adult  
gear  
other  
(explain)

Depth

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Wire Out

min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

Flowmeter

meter # 9851  
final rev. 61176  
initial rev. 59221

Total 1949

Tow Time

Total \_\_\_\_\_

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations

A-Genet ☐

A-Gut ☐

A-Length ☐

A-Oto ☐

A-Wght ☐

Brain ☐

CAT ☐

Discard ☒

J-Genet ☐

J-Gut ☐

J-Length ☐

L-Oto ☐

L-Wght ☐

L-Bioch ☐

L-Genet ☐

L-Gut ☐

L-Hist ☐

L-Musc ☐

L-Oto ☐

Merist ☐

QTowF ☐

QTowS ☐

Pred ☐

RCountE ☐

RCountJ ☐

fish removed Y/N ☐

RCountL ☐

Shrink ☐

sample ☐

sample ☐

sample ☐

Gear

Net

Mesh

um

please see FOCI Field Manual for Gear abbreviations



# Cruise Operations Database

FOCI Cruise MF02-05 (e.g. 4MF99) Station M3-Wd Haul FOCI Station Alt. Station BON017 (e.g. HJ45 or FOX058)  
Ships Cruise MF02-05 GMT-Date 09-May-02 GM-Time 20:18 Bottom Depth 129.7 m  
DLat SS MLat S8.467 °N DLong 166 MLong 36.9 °W

Haul Comments \_\_\_\_\_

Gear 60 BON Net 1 Mesh 333 um

please see FOCI Field Manual for Gear abbreviations

<b>Performance</b> good quest fail lost (explain if not good)	<b>Purpose</b> gridpre grid gridpost diel drift phys	<b>Depth</b> min. _____ m max. _____ m <b>Wire Out</b> min. _____ m max. _____ m	<b>Flowmeter</b> meter # <u>8990</u> final rev. <u>85116</u> initial rev. <u>82464</u> Total <u>2652</u>	<b>Tow Time</b> mess. net 0 _____ at depth <u>130</u> haul in _____ mess. net 1 _____ Total <u>12:39</u>
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## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

Absorb <input type="checkbox"/>	ChLAM <input type="checkbox"/>	J-Length <input type="checkbox"/>	Lugals <input type="checkbox"/>	QTowF <input type="checkbox"/>	fish removed Y / N
ADCP <input type="checkbox"/>	Chlor <input type="checkbox"/>	J-Oto <input type="checkbox"/>	Merist <input type="checkbox"/>	QTowS <input type="checkbox"/>	TSG <input type="checkbox"/>
A-Genet <input type="checkbox"/>	CTD <input type="checkbox"/>	J-Wght <input type="checkbox"/>	MZ <input type="checkbox"/>	RCountE <input type="checkbox"/>	VideoNet <input type="checkbox"/>
A-Gut <input type="checkbox"/>	Deploy <input type="checkbox"/>	L-Bioch <input type="checkbox"/>	NetFluor <input type="checkbox"/>	RCountJ <input type="checkbox"/>	XBT <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	L-Genet <input type="checkbox"/>	Nut <input type="checkbox"/>	RCountL <input type="checkbox"/>	sample <input type="checkbox"/>
A-Oto <input type="checkbox"/>	EBKG <input type="checkbox"/>	L-Gut <input type="checkbox"/>	Ovary <input type="checkbox"/>	Recovery <input type="checkbox"/>	sample <input type="checkbox"/>
Asound <input type="checkbox"/>	EK500 <input type="checkbox"/>	L-Hist <input type="checkbox"/>	PAR <input type="checkbox"/>	ScanMar <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	Fluor <input type="checkbox"/>	Live <input type="checkbox"/>	PhytoF <input type="checkbox"/>	Shrink <input type="checkbox"/>	sample <input type="checkbox"/>
Brain <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Musc <input type="checkbox"/>	POC <input type="checkbox"/>	SSF <input type="checkbox"/>	sample <input type="checkbox"/>
CAT <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Oto <input type="checkbox"/>	Pred <input type="checkbox"/>	Strip <input type="checkbox"/>	sample <input type="checkbox"/>

## CTDB Bottle

### Sample info

please record all samples collected (each bottle should have its own record)

Depth	Chlor	Nut	MZ	other	Depth	Chlor	Nut	MZ	other
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	m	volume	bottle #	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Gear 20 BON Net 1 Mesh 153 um

please see FOCI Field Manual for Gear abbreviations

<b>Performance</b> good quest fail lost (explain if not good)	<b>Purpose</b> gridpre grid gridpost diel drift phys	<b>Depth</b> min. _____ m max. _____ m <b>Wire Out</b> min. _____ m max. _____ m	<b>Flowmeter</b> meter # <u>3104</u> final rev. <u>99706</u> initial rev. <u>97260</u> Total <u>2446</u>	<b>Tow Time</b> mess. net 1 _____ at depth _____ haul in _____ mess. net 2 _____ Total _____
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## Samples Collected

circle all samples collected PLUS fill in ProjectCode(s) (in the box) and NumberSampled (on the line when applicable)

A-Genet <input type="checkbox"/>	Brain <input type="checkbox"/>	J-Length <input type="checkbox"/>	L-Gut <input type="checkbox"/>	QTowF <input type="checkbox"/>	fish removed Y / N
A-Gut <input type="checkbox"/>	CAT <input type="checkbox"/>	J-Oto <input type="checkbox"/>	L-Hist <input type="checkbox"/>	QTowS <input type="checkbox"/>	RCountL <input type="checkbox"/>
A-Length <input type="checkbox"/>	Discard <input checked="" type="checkbox"/>	J-Wght <input type="checkbox"/>	L-Musc <input type="checkbox"/>	Pred <input type="checkbox"/>	Shrink <input type="checkbox"/>
A-Oto <input type="checkbox"/>	J-Genet <input type="checkbox"/>	L-Bioch <input type="checkbox"/>	L-Oto <input type="checkbox"/>	RCountE <input type="checkbox"/>	sample <input type="checkbox"/>
A-Wght <input type="checkbox"/>	J-Gut <input type="checkbox"/>	L-Genet <input type="checkbox"/>	Merist <input type="checkbox"/>	RCountJ <input type="checkbox"/>	sample <input type="checkbox"/>

Gear \_\_\_\_\_ Net \_\_\_\_\_

Mesh \_\_\_\_\_ um *please see FOCI Field Manual for Gear abbreviations*

**Performance**  
good \_\_\_\_\_  
quest \_\_\_\_\_  
fail \_\_\_\_\_  
lost \_\_\_\_\_  
(explain if not good)

**Purpose**  
gridpre \_\_\_\_\_  
grid \_\_\_\_\_  
gridpost \_\_\_\_\_  
diel \_\_\_\_\_  
drift \_\_\_\_\_  
phys \_\_\_\_\_  
pinksurv \_\_\_\_\_  
juvsurv \_\_\_\_\_  
adult \_\_\_\_\_  
gear \_\_\_\_\_  
other \_\_\_\_\_  
(explain)

**Depth**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m  
**Wire Out**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

**Flowmeter**  
meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
**Total** \_\_\_\_\_

**Tow Time**  
mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
**Total** \_\_\_\_\_

A-Genet ☐  
A-Gut ☐  
A-Length ☐  
A-Oto ☐  
A-Wght ☐

Brain ☐  
CAT ☐  
Discard ☒  
J-Genet ☐  
J-Gut ☐

J-Length ☐  
L-Oto ☐  
L-Wght ☐  
L-Bioch ☐  
L-Genet ☐

QTowF ☐ *fish removed* Y/N  
QTowS ☐ RCountL ☐  
Pred ☐ Shrink ☐  
RCountE ☐ sample ☐  
RCountJ ☐ sample ☐

Gear 60 BUN Net 2

Mesh 333 um *please see FOCI Field Manual for Gear abbreviations*

**Performance**  
good \_\_\_\_\_  
quest \_\_\_\_\_  
fail \_\_\_\_\_  
lost \_\_\_\_\_  
(explain if not good)

**Purpose**  
gridpre \_\_\_\_\_  
grid \_\_\_\_\_  
gridpost \_\_\_\_\_  
diel \_\_\_\_\_  
drift \_\_\_\_\_  
phys \_\_\_\_\_  
pinksurv \_\_\_\_\_  
juvsurv \_\_\_\_\_  
adult \_\_\_\_\_  
gear \_\_\_\_\_  
other \_\_\_\_\_  
(explain)

**Depth**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m  
**Wire Out**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

**Flowmeter**  
meter # 4269  
final rev. 08390  
initial rev. 05821  
**Total** 2569

**Tow Time**  
mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
**Total** \_\_\_\_\_

A-Genet ☐  
A-Gut ☐  
A-Length ☐  
A-Oto ☐  
A-Wght ☐

Brain ☐  
CAT ☐  
Discard ☒  
J-Genet ☐  
J-Gut ☐

J-Length ☐  
L-Oto ☐  
L-Wght ☐  
L-Bioch ☐  
L-Genet ☐

QTowF ☐ *fish removed* Y/N  
QTowS ☐ RCountL ☐  
Pred ☐ Shrink ☐  
RCountE ☐ sample ☐  
RCountJ ☐ sample ☐

Gear \_\_\_\_\_ Net \_\_\_\_\_

Mesh \_\_\_\_\_ um *please see FOCI Field Manual for Gear abbreviations*

**Performance**  
good \_\_\_\_\_  
quest \_\_\_\_\_  
fail \_\_\_\_\_  
lost \_\_\_\_\_  
(explain if not good)

**Purpose**  
gridpre \_\_\_\_\_  
grid \_\_\_\_\_  
gridpost \_\_\_\_\_  
diel \_\_\_\_\_  
drift \_\_\_\_\_  
phys \_\_\_\_\_  
pinksurv \_\_\_\_\_  
juvsurv \_\_\_\_\_  
adult \_\_\_\_\_  
gear \_\_\_\_\_  
other \_\_\_\_\_  
(explain)

**Depth**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m  
**Wire Out**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

**Flowmeter**  
meter # \_\_\_\_\_  
final rev. \_\_\_\_\_  
initial rev. \_\_\_\_\_  
**Total** \_\_\_\_\_

**Tow Time**  
mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
**Total** \_\_\_\_\_

A-Genet ☐  
A-Gut ☐  
A-Length ☐  
A-Oto ☐  
A-Wght ☐

Brain ☐  
CAT ☐  
Discard ☒  
J-Genet ☐  
J-Gut ☐

J-Length ☐  
J-Oto ☐  
J-Wght ☐  
L-Bioch ☐  
L-Genet ☐

QTowF ☐ *fish removed* Y/N  
QTowS ☐ RCountL ☐  
Pred ☐ Shrink ☐  
RCountE ☐ sample ☐  
RCountJ ☐ sample ☐

Gear 26 BUN Net 2

Mesh 153 um *please see FOCI Field Manual for Gear abbreviations*

**Performance**  
good \_\_\_\_\_  
quest \_\_\_\_\_  
fail \_\_\_\_\_  
lost \_\_\_\_\_  
(explain if not good)

**Purpose**  
gridpre \_\_\_\_\_  
grid \_\_\_\_\_  
gridpost \_\_\_\_\_  
diel \_\_\_\_\_  
drift \_\_\_\_\_  
phys \_\_\_\_\_  
pinksurv \_\_\_\_\_  
juvsurv \_\_\_\_\_  
adult \_\_\_\_\_  
gear \_\_\_\_\_  
other \_\_\_\_\_  
(explain)

**Depth**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m  
**Wire Out**  
min. \_\_\_\_\_ m  
max. \_\_\_\_\_ m

**Flowmeter**  
meter # 9851  
final rev. 63945  
initial rev. 01600  
**Total** 2345

**Tow Time**  
mess. net 0 \_\_\_\_\_  
at depth \_\_\_\_\_  
haul in \_\_\_\_\_  
mess. net 1 \_\_\_\_\_  
**Total** \_\_\_\_\_

A-Genet ☐  
A-Gut ☐  
A-Length ☐  
A-Oto ☐  
A-Wght ☐

Brain ☐  
CAT ☐  
Discard ☒  
J-Genet ☐  
J-Gut ☐

J-Length ☐  
L-Oto ☐  
L-Wght ☐  
L-Bioch ☐  
L-Genet ☐

QTowF ☐ *fish removed* Y/N  
QTowS ☐ RCountL ☐  
Pred ☐ Shrink ☐  
RCountE ☐ sample ☐  
RCountJ ☐ sample ☐