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VOL II

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Onslow Bay
Physical/Dynamical Experiments
Summer, 1976
Volume II (Data Products)

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onslow bay
physical / dynamical
experiments
summer , 1976

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data report

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Summer, 1976

Data Report
Volume II (Data Products)

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Figure 11 Low pass current velocity components and vectors from meter A(Albatross)_{top}

ENDECO 316 08JUL25AUG76 R18 UCMP40HRLP

ENDECO 316 08JUL25AUG76 R18 VCMP40HRLP

Figure 12 FFT of low pass current velocity components from meter A(Albatross)_{top}

Figure 13

ENDECO 316 U/V A-TOP 08JUL-25AUG 76 R18 40HRLP DETREND
DOF=9.25 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Spectra of low pass current velocity components from meter A(Albatross)_{top}

Figure 14
(a,b,c,d) Unfiltered current velocity components from
meter A(Albatross) top

ENDECO 316 (#A-TOP) 08JUL-25AUG76 R18 U-CMP (CM/SEC)

ENDECO 316 (#A-TOP) 08JUL-25AUG76 R18 V-CMP (CM/SEC)

Figure 14b

ENDECO 316 (#A-TOP) 08JUL-25AUG76 R18 U-CMP (CM/SEC)

ENDECO 316 (#A-TOP) 08JUL-25AUG76 R18 V-CMP (CM/SEC)

Figure 14c

ENDECO 316 (#A-TOP) 08JUL-25AUG76 R18 U-CMP (CM/SEC)

ENDECO 316 (#A-TOP) 08JUL-25AUG76 R18 V-CMP (CM/SEC)

Figure 14d

Figure 15 FFT of unfiltered current velocity components from meter A(Albatrss)_{top}

Figure 16
(a,b,c)

Progressive vector diagrams of unfiltered
current velocity from meter A(Albatross)_{top}

P.V.D. -#A-TOP S76 R0 (SUBSET -- 0000:13JUL76 - 0000:24JUL76)

WEST(-) - DISPLACEMENT(KM.) - EAST(+)

SCALE: ONE DIV. = 3.00 K.M.

Figure 16b

Figure 16c

Figure 17 Hodograph parameters from meter A(Albatross)_{top}

Figure 18

Low pass current velocity components
and vectors from meter B(Brant)_{top}

Figure 19

FFT of low pass current velocity components from meter B(Brant)_{top}

ENDECO 247 07JUL25AUG76 R69 UCMP40HRLP

ENDECO 247 07JUL25AUG76 R69 VCMP40HRLP

ENDECO 247 U/V B-TOP 07JUL-25AUG 76 R69 40HRLP DETREND
DOF=9.42 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 20

Spectra of low pass current velocity
components from meter B(Brant) top

ENDECO 247 (#B-TOP) 07JUL-25AUG76 R69 U-CMP (CM/SEC)

ENDECO 247 (#B-TOP) 07JUL-25AUG76 R69 V-CMP (CM/SEC)

Figure 21
(a,b,c,d)

Unfiltered current velocity components
from meter B(Brant)^{top}

ENDECO 247 (#B-TOP) 07JUL-25AUG76 R69 U-CMP (CM/SEC)

ENDECO 247 (#B-TOP) 07JUL-25AUG76 R69 V-CMP (CM/SEC)

Figure 21b

Figure 21c

Figure 21d

Figure 22

FFT of unfiltered current velocity components from meter B(Brant)_{top}

P.V.D. -#B-TOP S76 R0 1730:07JUL76 - 0530:25AUG76

WEST(-) - DISPLACEMENT(KM.) - EAST(+)

P.V.D. -#B-TOP S76 R0 (SUBSET -- 0000:13JUL76 - 0000:24JUL76)

WEST(-) - DISPLACEMENT(KM.) - EAST(+)

SCALE: ONE DIV. = 1.00 K.M.

Figure 23b

P.V.D. -#B-TOP S76 R0 (SUBSET -- 0000:02AUG76 - 0000:18AUG76)
 WEST(-) - DISPLACEMENT(KM.) - EAST(+)

Figure 23c

Figure 24

Hodograph parameters from meter B(Brant)_{top}

Figure 25
Low pass current velocity components and
vectors from meter C(Cormorant) top

2254 CORM TOP S76 R69.65 U-CMP 40HRLP

2254 CORM TOP S76 R69.65 V-CMP 40HRLP

Figure 26

FFT of low pass current velocity components from meter C(Cormorant)_{top}

Figure 27
Spectra of low pass current velocity
components from meter C(Cormorant) top

2254 CORM TOP S76 R69.65 V/U 40HRLP DETREND
DOF=18.9 LAOS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

S2254 CORM TOP S76 R69.65 U-CMP

S2254 CORM TOP S76 R69.65 V-CMP

Figure 28
(a,b,c,d,
e,f,g)

Unfiltered current velocity components
from meter C(Cormorant) top

S2254 CORM TOP S76 R69.65 U-CMP

S2254 CORM TOP S76 R69.65 V-CMP

Figure 28c

S2254 CORM TOP S76 R69.65 U-CMP

S2254 CORM TOP S76 R69.65 V-CMP

Figure 28d

Figure 28e

Figure 28f

S2254 CORM TOP S76 R69.65 U-CMP

S2254 CORM TOP S76 R69.65 V-CMP

Figure 28g

2254 CORM TOP S76 R69.65 U-CMP

Figure 29 FFT of unfiltered current velocity components from meter C(Cormorant)_{top}

2254 CORM TOP S76 R69.65 V-CMP

P.V.D. -#C-TOP S76 R0 1730:22JUN76 - 2130:18SEP76

Figure 30
(a,b,c)

Progressive vector diagrams of unfiltered
current velocity from meter C(Cormorant)_{top}

P.V.D. -#C-TOP S76 RO (SUBSET -- 0000:13JUL76 - 0000:24JUL76)

Figure 30b

Figure 31

Hodograph parameters from meter
C(Cormorant)_{top}

Polar Histogram (Radial Increment=.5 %)

S2254

C_{top} S76

Figure 32 Histogram from meter C(Cormorant)_{top}

Figure 33 Low pass temperature and pressure from meter C(Cormorant) top

C-TOP TEMP 40HRLP SUBSET S76 *DM

C-TOP PRESS 40HRLP SUBSET S76 *DM

Figure 34 FFT of low pass temperature and pressure from meter C(Cormorant)_{top}

Figure 35
Spectra of temperature and the low pass
current velocity u component, both from
meter C(Cormorant) top

C-TOP S76 TEMP/UCP R69.65 40HRLP DETREND
DOF=18.9 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 36 Spectra of temperature and the low pass current velocity v component, both from meter C(Cormorant), top

C-TOP S76 TEMP/VCHP R69.65 40HRLP DETREND
DOF=18.9 LAGS=45.0 BW= 0.0593 CPD
SPKTRA REV 7(NCSU)

Figure 37
(a,b,c,
d,e,f,g)

Unfiltered temperature and pressure from
meter C(Cormorant)_{top}

Figure 37b

Figure 37c

Figure 37d

Figure 37 e

Figure 37f

C-TOP S76 TEMP (CELSIUS)

C-TOP S76 PRESS (METERS)

Figure 37g

2254 C-TOP S76 CALIB TEMP.

2254 C-TOP S76 CALIB PRES.

Figure 38

FFT of unfiltered temperature and pressure
from meter C(Cormorant)_{top}

S1905A CORM BOT S76 R45.48 U-CMP 40HRLP

S1905A CORM BOT S76 R45.48 V-CMP 40HRLP

V (cm/sec)
0 20 40 60 80

Figure 39

Low pass current velocity components and
vectors from meter C(Cormorant)_{bot}

1905A CORM BOT S76 R45.48 U-CMP 40HRLP

1905A CORM BOT S76 R45.48 V-CMP 40HRLP

Figure 40

FFT of low pass current velocity components from meter C(Cormorant)bot

Figure 4.1

Spectra of low pass current velocity components from meter C(Cormorant) bot

1905A CORM BOT S76 R45.48 V/U 40HRLP DETREND
DOF=12.3 LAGS=45.0 BW= 0.0593 CPD
SPKTRA REV 7(NCSU)

PIETRAFESA-NCSU

S1905A CORM BOT S76 R45.48 U-CMP

S1905A CORM BOT S76 R45.48 V-CMP

Figure 42b

Figure 42a

S1905A CORM BOT S76 R45.48 U-CMP

S1905A CORM BOT S76 R45.48 V-CMP

Figure 42e

1905A CORM BOT S76 R45.48 U-CMP

Figure 43 FFT of unfiltered current velocity components from meter C(Cormorant)_{bot}

1905A CORM BOT S76 R45.48 V-CMP

P.V.D. -#C-BOT S76 R0 1730:22JUN76 - 0415:22AUG76)

Figure 44
(a,b,c
d,e)

Progressive vector diagrams of unfiltered
current velocity from meter C(Cormorant) bot

P.V.D. -#C-BOT S76 R0 (SUBSET -- 0000:13JUL76 - 0000:24JUL76)

Figure 44b

Figure 44c

P.V.D. -#C-BOT S76 R0 (SUBSET -- 0000:02AUG76 - 0000:18AUG76)

Figure 44d

P.V.D. -#C-BOT S76 R0 (SUBSET -- 0000:02AUG76 - 0000:09AUG76)

Figure 44e

Figure 45

Hodograph parameters from meter
C(Cormorant)_{bot}

Polar Histogram (Radial Increment = .5 %)

Figure 46 Histogram from meter C (Cormorant) bot

Figure 47 Low pass temperature and pressure from meter C(Cormorant) bot

C-BOT TEMP 40HRLP SUBSET S76

*DM

C-BOT PRESS 40HRLP SUBSET S76

*DM

Figure 48

FFT of low pass temperature and pressure
from meter C(Cormorant)_{bot}

Figure 49
Spectra of temperature and the low pass
current velocity u component, both from
meter C(Cormorant) bot

Figure 50
Spectra of temperature and the low pass
current velocity v component, both from
meter C(Cormorant) bot

C-BOT S76 TEMP (CELSIUS)

C-BOT S76 PRESS (METERS)

C-BOT S76 TEMP (CELSIUS)

C-BOT S76 PRESS (METERS)

Figure 51b

Figure 51c

C-BOT S76 TEMP (CELSIUS)

C-BOT S76 PRESS (METERS)

Figure 5ld

Figure 51e

C-BOT S76 TEMP (CELSIUS)

C-BOT S76 PRESS (METERS)

Figure 51f

C-BOT S76 TEMP (CELSIUS)

C-BOT S76 PRESS (METERS)

12 SEPT.

Figure 51g

1905 C-BOT S76 CALIB TEMP.

1905 C-BOT S76 CALIB PRES.

Figure 52 FFT of unfiltered temperature and pressure
from meter C(Cormorant)_{bot}

Figure 53

Low pass current velocity components and
vectors from meter D(Dunlin)_{top}

2259 DUNLIN TOP S76 R56.82 U-CMP40HRLP

Figure 54 FFT of low pass current velocity components from meter D(Dunlin)_{top}

2259 DUNLIN TOP S76 R56.82 V-CMP40HRLP

Figure 55

Spectra of low pass current velocity components from meter D(Dunlin)_{top}

2259 DUNLIN TOP S76 U/V R56.82 40HRLP DETREND
DOF=15.7 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NC)

S2259 DUNLIN TOP S76 R56.82 U-CMP

S2259 DUNLIN TOP S76 R56.82 V-CMP

S2259 DUNLIN TOP S76 R56.82 U-CMP

S2259 DUNLIN TOP S76 R56.82 V-CMP

S2259 DUNLIN TOP S76 R56.82 U-CMP

S2259 DUNLIN TOP S76 R56.82 V-CMP

S2259 DUNLIN TOP S76 R56.82 U-CMP

S2259 DUNLIN TOP S76 R56.82 V-CMP

S2259 DUNLIN TOP S76 R56.82 U-CMP

S2259 DUNLIN TOP S76 R56.82 V-CMP

Figure 56e

S2259 DUNLIN TOP S76 R14.99 U-CMP

S2259 DUNLIN TOP S76 R14.99 V-CMP

2259 DUNLIN TOP S76 R56.82 U-CMP

Figure 57 FFT of unfiltered current velocity components from meter D(Dunlin)_{top}

2259 DUNLIN TOP S76 R56.82 V-CMP

P.V.D. -#D-TOP S76 R0 1445:08JUL76 - 1015:21SEP76

WEST(-) - DISPLACEMENT(KM.) - EAST(+)

Figure 58b

P.V.D. -#D-TOP S76 .RO (SUBSET -- 0000:02AUG76 - 0000:18AUG76)

WEST(-) - DISPLACEMENT(KM.) - EAST(+)

Figure 58c

Figure 59

Hodograph parameters from meter
D(Dunlin)_{top}

Polar Histogram (Radial Increment = .5 %)

Figure 60 Histogram from meter D(Dunlin) top

Figure 61 Low pass temperature and pressure from meter D(Dunlin) top

D-TOP TEMP 40HRLP SUBSET S76 *DM

D-TOP PRESS 40HRLP SUBSET S76 *DM

Figure 62 FFT of low pass temperature and pressure from meter D(Dunlin)_{top}

Figure 63
Spectra of temperature and the low pass
current velocity u component, both from
meter D(Dunlin) top

D-TOP S76 TEMP/UCMP R56.82 40HRLP DETREND
DOF=15.7 LAGS=45.0 BW= 0.0593 CPD
SPKTRA REV 7(NCSU)

Figure 64
Spectra of temperature and the low pass
current velocity v component, both from
meter D(Duilln) top

D-TOP S76 TEMP (CELSIUS)

D-TOP S76 PRESS (METERS)

4 JULY

D-TOP S76 TEMP (CELSIUS)

D-TOP S76 PRESS (METERS)

18 JULY

Figure 65b

Figure 65c

Figure 65d

D-TOP S76 TEMP (CELSIUS)

D-TOP S76 PRESS (METERS)

Figure 65e

Figure 65f

2259 DUNLIN TOP S76 CALIB TEMP.

*DM

2259 DUNLIN TOP S76 CALIB PRES.

*DM

Figure 66 FFT of unfiltered temperature and pressure from meter D(Dunlin)_{top}

S1908 DUNLIN BOT S76 R14.99 U-CMP 40HRLP

S1908 DUNLIN BOT S76 R14.99 V-CMP 40HRLP

Figure 67

Low pass current velocity components
and vectors from meter D(Dunlin)_{bot}

1908 DUNLIN BOT S76 R14.99 U-CMP40HRLP

Figure 68 FFT of low pass current velocity components from meter D(Dunlin)_{bot}

1908 DUNLIN BOT S76 R14.99 V-CMP40HRLP

Figure 69

Spectra of low pass current velocity components from meter D(Dunlin)_{bot}

1908 DUNLIN BOT S76 U/V R14.99 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

S1908 DUNLIN BOT S76 R14.99 U-CMP

S1908 DUNLIN BOT S76 R14.99 V-CMP

4 JULY

Figure 70b

S1908 DUNLIN BOT S76 R14.99 U-CMP

S1908 DUNLIN BOT S76 R14.99 V-CMP

Figure 70c

S1908 DUNLIN BOT S76 R14.99 U-CMP

S1908 DUNLIN BOT S76 R14.99 V-CMP

Figure 70d

1908 DUNLIN BOT S76 R14.99 U-CMP

1908 DUNLIN BOT S76 R14.99 V-CMP

Figure 71

FFT of unfiltered current velocity
components from meter D(Dunlin)_{bot}

P.V.D. -#D-BOT S76 R0 1445:08JUL76 - 0545:21AUG76

Figure 72
(a,b,c)

Progressive vector diagrams of unfiltered
current velocity from meter D(Dunlin)_{bot}

P.V.D. -#D-BOT S76 R0 (SUBSET -- 0000:13JUL76 - 0000:24JUL76)

Figure 72b

.P.V.D.-#D-BOT S76 R0 (SUBSET -- 0000:02AUG76 - 0000:18AUG76)

Figure 72c

Figure 73 Hodograph parameters from meter
D(Dunlin)_{bot}

Polar Histogram
(Radial Increment = .5 %)

S1908

D_{bot} S76

Figure 74 Histogram from meter D(Dunlin)_{bot}

D-BOT TEMP 40HRLP SUBSET S76

*DM

D-BOT PRESS 40HRLP SUBSET S76

*DM

Figure 76 FFT of low pass temperature and pressure from meter D(Dunlin)_{bot}

D-BOT S76 TEMP/UCMP R14.99 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 77
Spectra of temperature and the low pass
current velocity u component, both from
meter D(Dunlin) bot

Figure 78 Spectra of temperature and the low pass current velocity v component, both from meter D(Dunlin) bot

D-BOT S76 TEMP/VCMF R14.99 40HRLP DETREND
DOF=8.30 LAGS=15.0 BW= 0.0593 CPD

SPKTR# REV 7(NCSU)

D-BOT S76 TEMP (CELSIUS)

D-BOT S76 PRESS (METERS)

4 JULY

D-BOT S76 TEMP (CELSIUS)

D-BOT S76 PRESS (METERS)

D-BOT S76 TEMP (CELSIUS)

D-BOT S76 PRESS (METERS)

D-BOT S76 TEMP (CELSIUS)

D-BOT S76 PRESS (METERS)

Figure 79d

D-BOT S76 RAW TEMP

D-BOT S76 RAW PRESS

Figure 80 FFT of unfiltered temperature and pressure from meter D(Dunlin)_{bot}

Figure 81

Low pass current velocity components and
vectors from meter E(Eider) top

2256 EIDER TOP S76 R49.79 U-CMP 40HRLP

Figure 82 FFT of low pass current velocity components from meter E(Eider)_{top}

2256 EIDER TOP S76 R49.79 V-CMP 40HRLP

Figure 83

Spectra of low pass current velocity components from meter E(Eider)_{top}

2256 EIDER TOP S76 U/V R41.18 40HRLP DETREND
DOF=19.6 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

S2256 EIDER TOP S76 R49.79 U-CMP

S2256 EIDER TOP S76 R49.79 V-CMP

Figure 84
(a,b,c,
d,e,f,g)

Unfiltered current velocity components
from meter E(Eider)_{top}

S2256 EIDER TOP S76 R49.79 U-CMP

S2256 EIDER TOP S76 R49.79 V-CMP

S2256 EIDER TOP S76 R49.79 U-CMP

S2256 EIDER TOP S76 R49.79 V-CMP

S2256 EIDER TOP S76 R49.79 U-CMP

S2256 EIDER TOP S76 R49.79 V-CMP

'S2256 EIDER TOP S76 R49.79 U-CMP

S2256 EIDER TOP S76 R49.79 V-CMP

S2256 EIDER TOP S76 R49.79 U-CMP

S2256 EIDER TOP S76 R49.79 VCMP

Figure 85 FFT of unfiltered current velocity components from meter E(Eider)_{top}

P.V.D. -#E-TOP S76 R0 0515:22JUN76 - 1130:21SEP76

Figure 86 Progressive vector diagrams of unfiltered current velocity from meter E(Eider)_{top} (a,b,c)

P.V.D. -#E-TOP S76 R0 (SUBSET -- 0000:13JUL76 - 0000:24JUL76)

WEST(-) - DISPLACEMENT(KM.) - EAST(+)

Figure 86b

P.V.D. -#E-TOP S76 R0 (SUBSET -- 0000:02AUG76 - 0000:18AUG76)

Figure 86c

Figure 87 Hodograph parameters from meter E(Elder)_{top}

Figure 88 Histogram from meter E(Elder)_{top}

Figure 89

Low pass temperature and pressure from
meter E(Eider)_{top}

E-TOP TEMP 40HRLP SUBSET S76 *DM

E-TOP PRESS 40HRLP SUBSET S76 *DM

Figure 90 FFT of low pass temperature and pressure from meter E(Eider)_{top}

Figure 91

Spectra of temperature and the low pass current velocity u component, both from meter E(Eider)_{top}

E-TOP U/T S76 R49.79 40HRLP DETREND
DOF=19.6 LAGS=45.0 BW= 0.0593 CPD
SPKTRA REV 7(NCSU)

Figure 92

Spectra of temperature and low pass
current velocity v component, both
from meter E(Eider)_{top}

E-TOP V/T S76 R49.79 40HRLP DETREND
DOF=19.6 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCS)

20 JUNE

Figure 93
(a,b,c,
d,e,f,g)

Unfiltered temperature and pressure from meter
E(Eider)_{top}

E-TOP S76 TEMP (CELSIUS)

E-TOP S76 PRESS (METERS)

Figure 93b

E-TOP S76 TEMP (CELSIUS)

E-TOP S76 PRESS (METERS)

Figure 93c

Figure 93d

Figure 93e

Figure 93f

Figure 93g

2256 E-TOP S76 CALIB TEMP.

2256 E-TOP S76 CALIB PRES.

Figure 94 FFT of unfiltered temperature and pressure from meter E(Eider)_{top}

Figure 95

Low pass current velocity components from
meter E(Eider)_{bot}

1907 EIDER BOT S76 R41.18 U-CMP 40HRLP

Figure 96 FFT of low pass current velocity components from meter E(Eider)_{bot}

1907 EIDER BOT S76 R41.18 V-CMP 40HRLP

Figure 97 Unfiltered current velocity components
(a,b,c from meter E(Eider)_{bot}
d,e,f,g)

Figure 97b

Figure 97c

Figure 97d

Figure 97e

Figure 97f

S1907 EIDER BOT S76 R41.18 U-CMP

S1907 EIDER BOT S76 R41.18 V-CMP

Figure 97g

S1907 EIDER BOT S76 R41.18 U-CMP

Figure 98

FFT of unfiltered current velocity components from meter E(Eider)_{bot}

S1907 EIDER BOT S76 R41.18 V-CMP

P.V.D. -#E-BOT S76 R0 0615:22JUN76 - 0630:21SEP76

WEST(-) - DISPLACEMENT(KM.) - EAST(+)

Figure 99
(a,b,c)

Progressive vector diagrams of unfiltered current
velocity from meter E(Eider)bot

P.V.D. E-BOT S76 R0 (SUBSET -- 0000:13JUL76 - 0000:24JUL76)
 WEST(-) - DISPLACEMENT(KM.) - EAST(+)

P.V.D.-#E-BOT S76 R0 (SUBSET -- 0000:02AUG76 - 0000:18AUG76)

Figure 99c

Figure 100 Hodograph parameters from meter E(Elder)_{bot}

Figure 101 Histogram from meter E(Eider)_{bot}

Figure 102 Low pass temperature and pressure from
meter E(Eider)_{bot}

E-BOT TEMP 40HRLP SUBSET S76

*DM

E-BOT PRESS 40HRLP SUBSET S76

*DM

Figure 103 FFT of low pass temperature and pressure from meter E(Eider)_{bot}

Figure 104

Spectra of temperature and low pass current velocity u component, both from meter E(Eider)_{bot}

E-BOT U/T S76 R41.18 40HRLP DETREND
DOF=19.6 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 105

Spectra of temperature and low pass current velocity v component, both from meter E(Eider)_{bot}

E-80T V/T S76 R41.18 40HRLP DETREND
DOF=19.6 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NGSU)

E-BOT S76 TEMP (CELSIUS)

E-BOT S76 PRESS (METERS)

Figure 106
(a,b,c,
d,e,f,g)

Unfiltered temperature and pressure from meter
E(Eider)_{bot}

Figure 106b

Figure 106c

Figure 106d

E-BOT S76 TEMP (CELSIUS)

E-BOT S76 PRESS (METERS)

Figure 106e

Figure 106f

Figure 106g

1907 E-BOT S76 CALIB TEMP.

1907 E-BOT S76 CALIB PRES.

Figure 107 FFT of unfiltered temperature and pressure from meter E(Eider)_{bot}

Figure 108 Low pass current velocity components and vectors from meter F (Foster's Tern) bot

1906 FOST'N BOT S76 R46.10 U-CMP40HRLP

1906 FOST'N BOT S76 R46.10 V-CMP40HRLP

Figure 109 FFT of low pass current velocity components
from meter F(Foster's Tern)_{bot}

Figure 110 Spectra of low pass current velocity components from meter F (Foster's Tern) bot

PIETRAFESA - NCSU

Figure 111
(a,b,c
d,e,f)

Unfiltered current velocity components
from meter F(Foster's Tern)_{bot}

Figure 111b

S1906 FOST'N BOT S76 R46.10 U-CMP

S1906 FOST'N BOT S76 R46.10 V-CMP

Figure 111c

S1906 FOST'N BOT S76 R46.10 U-CMP

S1906 FOST'N BOT S76 R46.10 V-CMP

Figure 111d

Figure 111e

Figure 111f

1906 FOSTERS TERN BOT S76 R46.10 U-CMP

1906 FOSTERS TERN BOT S76 R46.10 V-CMP

Figure 112

FFT of unfiltered current velocity components from meter F(Foster's Tern)_{bot}

P.V.D. -#F-BOT S76 R0 (SUBSET -- 0000:13JUL76 - 0000:24JUL76)

Figure 113b

P.V.D. -#F-BUI S76 RU (SUBSET -- 0000:02AUG76 - 0000:18AUG76)

Figure 113c

Figure 114 Hodograph parameters from meter
F(Foster's Tern)_{bot}

Polar Histogram (Radial Increment = .5 %)

Figure 115 Histogram from meter F(Foster's Tern)_{bot}

Figure 116 Low pass temperature and pressure from meter F(Foster's Tern) bot

F-BOT TEMP 40HRLP SUBSET S76

*DM

F-BOT PRESS 40HRLP SUBSET S76

*DM

Figure 117

FFT of low pass temperature and pressure
from meter F(Foster's Tern)_{bot}

Figure 118

Spectra of temperature and the low pass current velocity u component, both from meter F(Foster's Tern)_{bot}

F-BOT U/T S76 R46.10 40:RLP DETREND
DOF=15.8 LAGS=45.0 9W= 0.0593 CPD

SPKTRA REV 7(NCSJ)

Figure 119
Spectra of temperature and the low pass
current velocity v component, both from
meter F(Foster's Tern)_{bot}

F-BOT V/T S76 R46.10 40HRLP DETREND
DOF=15.8 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

F-BOT S76 TEMP (CELSIUS)

F-BOT S76 PRESS (METERS)

Figure 120
(a,b,c,
d,e,f)

Unfiltered temperature and pressure from meter
F(Foster's Tern) bot

4 JULY

Figure 120b

Figure 120c

F-BOT S76 TEMP (CELSIUS)

F-BOT S76 PRESS (METERS)

Figure 120d

Figure 120e

Figure 120f

1906 FOSTERS TERN BOTTOM S76 CALIB T *DM

1906 FOSTERS TERN BOTTOM S76 CALIB P *DM

Figure 121 FFT of unfiltered temperature and pressure from meter F(Foster's Tern)_{bot}

Figure 122
Spectra of low pass current velocity components from meter C_{bot} (u component) and meter C_{top} (u component)

#C.BOT-U/#C.TOP-U 976 S1905A/S2254 CBF/CTF 40HRLP DETREND
DOF=12.3 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 123

Spectra of low pass current velocity components from meter C_{bot} (v component) and meter C_{top} (v component)

#C.BOT-V/#C.TOP-V 976 S1905A/S2254 CBF/CTF 40HRLP DETREND
DOF=12.3 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 124

Spectra of low pass current velocity components from meter C_{bot} (u component) and meter C_{top} (v component)

#C.BOT-U/#C.TOP-V S76 S1905A/S2254 CBF/CTF 40HRLP DETREND
DOF=12.3 LAGS=45.0 BW= 0.0593 CPD

SPKTR REV 7(NCSU)

Figure 125
Spectra of low pass current velocity
components from meter C_{bot} (v component)
and meter C_{top} (u component)

#C.BOT-V/#C.TOP-U S76 S1905A/S2254 CBF/CTF 40HRLP DETREND
DOF=12.3 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

#D.BOT-U/#D.TOP-U S76 S1908/S2259 DBF/DTF 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD
SPKTRA REV 7(NCSU)

Figure 127

Spectra of low pass current velocity components from meter D_{bot} (v component) and meter D_{top} (v component)

#D.BOT-V/#D.TOP-V S76 S1908/S2259 DBF/DTF 40HRLP DETREND
DOF=8.30 LAGS=15.0 BW= 0.0593 CPD
SPKTRA REV 7(NCSU)

Figure 128

Spectra of low pass current velocity components from meter D_{bot} (u component) and meter D_{top} (v component)

#D.BOT-U/#D.TOP-V S76 S1908/S2259 DBF/DTF 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCS4)

Figure 129
Spectra of low pass current velocity
components from meter D_{bot} (v component)
and meter D_{top} (u component)

#D.BOT-V/#D.TOP-U S76 S1908/S2259 DBF/DTF 40HRLP DETREND
DOF=8.30 LAOS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 130

Spectra of low pass current velocity components from meter A_{top} (u component) and meter C_{top} (u component)

316 U/2254 U A-TOP/C-TOP JUL-AUG 76 40HRLP DETREND
DOF=9.25 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 131
Spectra of low pass current velocity
components from meter A_{top} (v component)
and meter C_{top} (v component)

316 V/2254 V A-TOP/C-TOP JUL-AUG 76 40HRLP DETREND
DOF=9.25 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 132
Spectra of low pass current velocity
components from meter A_{top} (u component)
and meter C_{top} (v component)

316 U/2254 V A-TOP/C-TOP JUL-AUG 76 40HRLP DETREND
DOF=9.25 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 133
Spectra of low pass current velocity components from meter A_{top} (v component) and meter C_{top} (u component)

316 V/2254 U A-TOP/C-TOP JUL-AUG 76 40HRLP DETREND
DOF=9.25 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 134
Spectra of low pass current velocity components from meter A_{tcp} (u component) and meter C_{bot} (u component)

316 U/1905A U A-TOP/C-BOT JUL-AUG 76 40HRLP DETREND
DOF=8.48 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 135

Spectra of low pass current velocity components from meter A_{top} (v component) and meter C_{bot} (v component)

316 V/1905A V A-TOP/C-BOT JUL-AUG 76 40HRLP DETREND
DOF=8.48 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

316 U/1905A V A-TOP/C-BOT JUL-AUG 76 40HRLP DETREND
DOF=8.48 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 137
Spectra of low pass current velocity
components from meter A_{top} (v component)
and meter C_{bot} (u component)

316 V/1905A U A-TOP/C-BOT JUL-AUG 76 40HRLP DETREND
DOF=8.48 LAGS=45.0 BW= 0.0593 CPD
SPKTRA REV 7(NCSU)

Figure 138
Spectra of low pass current velocity
components from meter B_{top}(u component)
and meter E_{top}(u component)

247 U/2256 U B-TOP/E-TOP JUL-AUG 76 40HRLP DETREND
DOF=9.42 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 139
Spectra of low pass current velocity
components from meter B_{top} (v component)
and meter E_{top} (v component)

247 V/2256 V B-TOP/E-TOP JUL-AUG 76 40HRLP DETREND
DOF=9.42 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

247 U/2256 V B-TOP/E-TOP JUL-AUG 76 40HRLP DETREND
DOF=9.42 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 141
Spectra of low pass current velocity
components from meter B_{top} (v component)
and meter E_{top} (u component)

247 V/2256 U B-TOP/E-TOP JUL-AUG 76 40HRLP DETREND
DOF=9.42 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 142
Spectra of low pass current velocity
components from meter B_{top} (u component)
and meter F_{bot} (u component)

247 U/1906 U B-TOP/F-BOT JUL-AUG 76 40HRLP DETREND
DOF=9.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 143
Spectra of low pass current velocity
components from meter B_{top} (v component)
and meter F_{bot} (v component)

247 V/1906 V B-TOP/F-BOT JUL-AUG 76 40HRLP DETREND
DOF=9.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

95

Figure 144
Spectra of low pass current velocity
components from meter B_{top} (u component)
and meter F_{bot} (v component)

247 U/1906 V B-TOP/F-BOT JUL-AUG 76 40HRLP DETREND
DOF=9.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

95

Figure 145
Spectra of low pass current velocity
components from meter B_{top} (v component)
and meter F_{bot} (u component)

247 V/1906 U B-TOP/F-BOT JUL-AUG 76 40HRLP DETREND
DOF=9.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 146
Spectra of low pass current velocity
components from meter F_{bot} (u component)
and meter E_{top} (u component)

F-BOT U/E-TOP U (R46.10/R49.79) S76 40HRLP DETREND
DOF=15.8 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 147
Spectra of low pass current velocity
components from meter F_{bot} (v component)
and meter E_{top} (v component)

F-BOT V/E-TOP V (R46.10/R49.79) S76 40HRLP DETREND
DOF=15.8 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 148
Spectra of low pass current velocity
components from meter F_{bot} (u component
and meter E_{top} (v component)

F-BOT U/E-TOP V (R46.10/R49.79) S76 40HRLP DETREND
DOF=15.8 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 149
Spectra of low pass current velocity
components from meter F_{bot} (v component)
and meter E_{top} (u component)

F-BOT V/E-TOP U (R46.10/R49.79) S76 40HRLP DETREND
DOF=15.8 LAGS=45.0 BW= 0.0593 CPD
SPKTRA REV 7(NCSU)

Figure 150
Spectra of low pass current velocity
components from meter A_{top} (u component)
and meter B_{top} (u component)

316 U/247 U 08JUL-25AUG 76 R18/R69 40HRLP DETREND
DOF=9.19 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 151
Spectra of low pass current velocity
components from meter A_{top} (v component)
and meter B_{top} (v component)

316 V/247 V 08JUL-25AUG 76 R18/R69 40HRLP DETREND
DOF=9.19 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 152

Spectra of low pass current velocity components from meter A_{top} (u component) and meter B_{top} (v component)

316 U/247 V 08JUL-25AUG 76 R18/R69 40HRLP DETREND
DOF-9.19 LAGS-45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 153

Spectra of low pass current velocity components from meter A_{top} (v component) and meter B_{top} (u component)

316 V/247 U 08JUL-25AUG 76 R18/R69 40HRLP DETREND
DOF=9.19 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 154
Spectra of low pass current velocity
components from meter C_{top} (u component)
and meter D_{top} (u component)

#C.TOP-U/#D.TOP-U S76 S2254/S2259 CTF/DTF 40HRLP DETREND
DOF=15.1 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

SPECTRUM X

SPECTRUM Y

CROSS SPECTRUM

CROSS PHASE

Figure 155
Spectra of low pass current velocity
components from meter C_{top} (v component)
and meter D_{top} (v component)

#C.TOP-V/#D.TOP-V S/G S2254/S2259 CTF/DTF 40HRLP DETREND
DOF=15.1 LAGS=15.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 156
Spectra of low pass current velocity components from meter C_{top} (u component) and meter D_{top} (v component)

#C.TOP-U/#D.TOP-V S76 S2254/S2259 CTF/DTF 40HRLP DETREND
DOF=15.1 LAGS=45.0 BW= 0.0593 CPD
SPKTRA REV 7(NCSU)

Figure 157

Spectra of low pass current velocity components from meter C_{top} (v component) and meter D_{top} (u component)

#C.TOP-V/#D.TOP-U S76 S2254/S2259 CTF/DTF 40HRLP DETREND
DOF=15.1 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 158
Spectra of low pass current velocity
components from meter C_{bot} (u component)
and meter D_{bot} (u component)

#C.BOT-U/#D.BOT-U S76 S1905A/S1908 CBF/DBF 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 159
Spectra of low pass current velocity
components from meter C_{bot} (v component)
and meter D_{bot} (v component)

#C.BOT-V/#D.BOT-V S76 S1905A/S1908 CBF/DBF 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 160
Spectra of low pass current velocity
components from meter C_{bot} (u component)
and meter D_{bot} (v component)

#C.BOT-U/#D.BOT-V S76 S1905A/S1908 CBF/DBF 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD
SPKTRA REV 7(NCSU)

Figure 161

Spectra of low pass current velocity components from meter C_{bot} (v component) and meter D_{bot} (u component)

#C.BOT-V/#D.BOT-U S76 S1905A/S1908 CBF/DBF 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 162
Spectra of low pass current velocity components from meter C_{top} (u component) and meter E_{top} (u component)

#C.TOP-U/#E.TOP-U S76 S2254/S2256 CTF/ETF 40HRLP DETREND
DOF=18.8 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 163
Spectra of low pass current velocity
components from meter C_{top} (v component)
and meter E_{top} (v component)

#C.TOP-V/#E.TOP-V S76 S2251/S2256 CTF/ETF 40HRLP DETREND
DOF=18.8 LAGS=15.0 BW= 0.0593 CPD
SPKTRA REV 7(NCSU)

Figure 164

Spectra of low pass current velocity components from meter C_{top} (u component) and meter E_{top} (v component)

#C.TOP-U/#E.TOP-V S76 S2254/S2256 CTF/ETF 40HRLP DETREND
DOF=18.8 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

#C.TOP-V/#E.TOP-U S76 S2254/S2256 CTF/ETF 40HRLP DETREND
DOF=18.8 LAGS=45.0 BW= 0.0593 CPD
SPKTRA REV 7(NCSU)

#E.TOP-U/#D.TOP-U 976 S2256/S2259 ETF/DTF 40HRLP DETREND
DOF=15.7 LAGS=45.0 BW= 0.0593 CPD
SPKTRA REV 7(NCSU)

Figure 167
 Spectra of low pass current velocity
 components from meter E_{top} (v component)
 and meter D_{top} (v component)

#E.TOP-V/#D.TOP-V S76 S2256/S2259 ETF/DTF 40HRLP DETREND
 DOF=15.7 LAGS=45.0 BW= 0.0593 CPD
 SPKTRA REV 7(NCSU)

Figure 168
Spectra of low pass current velocity
components from meter E_{top} (u component)
and meter D_{top} (v component)

#E.TOP-U/#D.TOP-V 976 S2256/S2259 ETF/DTF 40HRLP DETREND
DOF=15.7 LAGS=45.0 BW= 0.0593 CPD
SPKTRA REV 7(NCSU)

Figure 169
Spectra of low pass current velocity
components from meter E_{top} (v component)
and meter D_{top} (u component)

#E.TOP-V/#D.TOP-U S76 S2256/S2259 ETF/DTF 40HRLP DETREND
DOF=15.7 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 170
Spectra of low pass current velocity
components from meter D_{bot} (u component
and meter C_{top} (u component)

D-BOT U/C-TOP U (14.99/69.65) S76 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 171
Spectra of low pass current velocity components from meter D_{bot} (v component) and meter C_{top} (v component)

D-BOT V/C-TOP V (14.99/69.65) S76 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 172
Spectra of low pass current velocity
components from meter D_{bot} (u component)
and meter C_{top} (v component)

D-BOT U/C-TOP V (14.99/69.65) S76 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 173
Spectra of low pass current velocity
components from meter D_{bot} (v component)
and meter C_{top} (u component)

D-BOT V/C-TOP U (14.99/69.65) S76 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 174

Spectra of low pass current velocity components from meter C_{bot} (u component) and meter D_{top} (u component)

C-BOT U/D-TOP U (R45.48/R56.82) S76 40HRLP DETREND
DOF=8.53 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 175
Spectra of low pass current velocity
components from meter C_{bot} (v component
and meter D_{top} (v component)

C-BOT V/D-TOP V (R45.48/R56.82) S76 40HRLP DETREND
DOF=8.53 LAGS=45.0 BW= 0.0593 CPD
SPKTRA REV 7(NCSU)

Figure 176
Spectra of low pass current velocity
components from meter C_{bot} (u component
and meter D_{top} (v component)

C-BOT U/D-TOP V (R45.48/R56.82) S76 40HRLP DETREND
DOF=8.53 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 177
Spectra of low pass current velocity
components from meter C_{bot} (v component)
and meter D_{top} (u component)

C-BOT V/D-TOP U (R45.48/R56.82) S76 40HRLP DETREND
DOF=8.53 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCS)

Figure 178
Spectra of low pass current velocity
components from meter D_{bot} (u component)
and meter E_{top} (u component)

D-BOT U/E-TOP U (14.99/49.79) S76 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 179
Spectra of low pass current velocity
components from meter D_{bot} (v component)
and meter E_{top} (v component)

D-BOT V/E-TOP V (14.99/49.79) S76 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 180
Spectra of low pass current velocity
components from meter D_{bot} (u component)
and meter E_{top} (v component)

D-BOT U/E-TOP V (14.99/49.79) 976 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 181

Spectra of low pass current velocity
components from meter D_{bot} (v component)
and meter E_{top} (u component)

D-BOT V/E-TOP U (14.99/49.79) S76 40HRLP DETREND
DOF=8.30 LAOS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

WILMINGTON
MAY-JUNE, 1976

Figure 182 Low pass temperature, pressure, wind velocity components, and wind stress components at Wilmington, N.C. May-June, 1976

Low pass temperature, pressure, wind velocity components, and wind stress components at Wilmington, N.C. July-August, 1976

Figure 183

Figure 184 Low pass temperature, pressure, wind velocity components, and wind stress components at Wilmington, N.C. September-October, 1976

WIL 76 0100:18JUN - 0100:26SEP76 UWC

WIL 76 0100:18JUN - 0100:26SEP76 VWC

Figure 185 FFT of low pass wind velocity components at Wilmington, N.C. 18 June-26 September, 1976

WIL 76 0100:18JUN - 0100:26SEP76 TEM *DM

WIL 76 0100:18JUN - 0100:26SEP76 PRE *DM

Figure 186 FFT of low pass temperature and pressure at Wilmington, N.C. 18 June-26 September, 1976

WIL 76 0100:18JUN - 0100:26SEP 76 USC

WIL 76 0100:18JUN - 0100:26SEP 76 VSC

Figure 187 FFT of low pass wind stress components
at Wilmington, N.C. 18 June-26 September,
1976

Figure 188 Unfiltered wind velocity components at
(a,b,c,d) Wilmington, N.C. 18 June-26 September, 1976

Figure 188b

Figure 188c

WIL RAW UWC (M/SEC) 01SEP - 26SEP 76

WIL RAW VWC (M/SEC) 01SEP - 26SEP 76

Figure 188d

WIL 76 0100:18JUN - 0100:26SEP76 RAW UWC

WIL 76 0100:18JUN - 0100:26SEP76 RAW VWC

Figure 189 FFT of unfiltered wind velocity components at Wilmington, N.C. 18 June- 26 September, 1976

Figure 190 Low pass temperature, pressure, wind velocity components, and wind stress components at Cape Hatteras, N.C. May-June, 1976

CAPE HATTERAS
JULY-AUGUST, 1976

Figure 191 Low pass temperature, pressure, wind velocity components, and wind stress components at Cape Hatteras, N.C. July-August, 1976

CAPE HATTERAS
SEPT-OCT., 1976

Figure 192 Low pass temperature, pressure, wind velocity components, and wind stress components at Cape Hatteras, N.C. September-October, 1976

HAT 76 0100:18JUN - 0100:26SEP76 UWC

HAT 76 0100:18JUN - 0100:26SEP76 VWC

Figure 193 FFT of low pass wind velocity components at Cape Hatteras, N.C. 18 June-26 September, 1976

HAT 76 0100:18JUN - 0100:26SEP76 TEM *DM

HAT 76 0100:18JUN - 0100:26SEP76 PRE *DM

Figure 194 FFT of low pass temperature and pressure at Cape Hatteras, N.C. 18 June-26 September, 1976

HAT 76 0100:18JUN - 0100:26SEP76 USC

HAT 76 0100:18JUN - 0100:26SEP76 VSC

Figure 195 FFT of low pass wind stress components at Cape Hatteras, N.C. 18 June-26 September, 1976

Figure 196 Unfiltered wind velocity components at Cape Hatteras, N.C. 18 June-26 September, 1976
(a,b,c,d)

Figure 196b

Figure 196c

Figure 196d

HAT 76 0100:18JUN - 0100:26SEP76 RAW UWC

HAT 76 0100:18JUN - 0100:26SEP76 RAW VWC

Figure 197 FFT of unfiltered wind velocity components at Cape Hatteras, N.C. June- September, 1976

Figure 198 Comparison of low pass current vectors from meters A_{top} , B_{top} , C_{top} , C_{bot} and low pass wind stress vector at Wilmington, 18 June-26 September, 1976.

Figure 199 Comparison of low pass current vectors from meters D_{top} , D_{bot} , E_{top} , F_{bot} , and low pass wind stress vector at Wilmington, 18 June-26 September, 1976

Figure 200

Spectra of the low pass wind stress u component at Wilmington, 13 July- 21 August, 1976 and low pass current velocity u component from meter A_{top}

WIL USC/316 U A-TOP 18 40HRLP DETREND
DOF=9.25 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

WIL VSC/316 V A-TOP R18 40HRLP DETREND
DOF=9.25 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 201

Spectra of the low pass wind stress v component at Wilmington, 13 July- 21 August, 1976 and low pass current velocity v component from meter A_{top}

Figure 202

Spectra of the low pass wind stress u component at Wilmington, 13 July- 21 August, 1976 and low pass current velocity v component from meter A_{top}

WIL USC/316 V A-TOP R18 40HRLP DETREND
DOF=9.25 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 203
Spectra of the low pass wind stress v component at Wilmington, 13 July- 21 August, 1976 and low pass current velocity u component from meter A_{top}

WIL VSC/316 U A-TOP R18 40HRLP DETREND
DOF=9.25 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 204

Spectra of the low pass wind stress u component at Wilmington, 12 July- 20 August, 1976 and low pass current velocity u component from meter B_{top}

WIL USC/247 U B-TOP R69 40HRLP DETREND
DOF=9.42 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 205

Spectra of the low pass wind stress v component at Wilmington, 12 July- August 1976 and low pass current velocity v component from meter B_{top}

WIL VSC/247 V B-TOP R69 40HRLP DETREND
DOF=9.42 LAGS=45.0 BW= 0.0593 CPD
SPKTRA REV 7(NCSU)

Figure 206
Spectra of the low pass wind stress u component at Wilmington, 12 July- 20 August, 1976 and low pass current velocity v component from meter B_{top}

WIL USC/247 V B-TOP 369 40HRLP DETREND
DOF=9.42 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 207
Spectra of the low pass wind stress v component at Wilmington, 12 July- 20 August, 1976 and low pass current velocity u component from meter B_{top}

WIL VSC/247 U B-TOP R69 40HRLP DETREND
DOF=9.42 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 208

Spectra of the low pass wind stress u component at Wilmington, 18 June-26 September, 1976 and low pass current velocity u component from meter C_{top}

WIL U-STRESS/U-CMP 2254 #C-TOP 976 R69.65 40HRLP DETREND
DOF=18.8 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 209

Spectra of the low pass wind stress v component at Wilmington, 18 June-26 September, 1976 and low pass current velocity v component from meter C_{top}

WIL V-STRESS/V-CMP 2254 #C-TOP 976 R69.65 40HRLP DETREND
DOF=10.8 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 210

Spectra of the low pass wind stress u component at Wilmington, 18 June-26 September, 1976 and low pass current velocity v component from meter C_{top}

WIL U-STRESS/V-CMP 2254 *C-TOP 976 R69.65 40HRLP DETREND
DOF=18.8 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 211

Spectra of the low pass wind stress v component at Wilmington, 18 June-26 September, 1976 and low pass current velocity u Component from meter C_{top}

WIL V-STRESS/U-CIP 2254 #C-TOP 976 R69.65 40HRLP DETREND
 DOF=18.8 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 212

Spectra of the low pass wind stress u component at Wilmington, 18 June-26 September, 1976 and low pass current velocity u component from meter C_{bot}

WIL U-STRESS/1905A #C U-CMP 976 R45.48 40HRLP DETREND #C-80T
DOF=12.3 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 213

Spectra of the low pass wind stress v component at Wilmington, 18 June-26 September, 1976 and low pass current velocity v component from meter C_{bot}

WIL V-STRESS/1905A #C V-CMP S76 R45.48 40HRLP DETREND #C-80T
DUF=12.3 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 214

Spectra of the low pass wind stress u component at Wilmington, 18 June-26 September, 1976 and low pass current velocity v component from meter C_{bot}

WIL U-STRESS/1905A #C V-CIP S76 R45.48 40HRLP DETREND #C-BOT
DOF=12.3 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 215

Spectra of the low pass wind stress v component at Wilmington, 18 June-26 September, 1976 and low pass current velocity u component from meter C_{bot}

WIL V-STRESS/1905A #C U-CMP S76 R45.48 40IRLP DETREND #C-BOT
DOF=12.3 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 216

Spectra of the low pass wind stress u component at Wilmington, 18 June-26 September, 1976 and low pass current velocity u component from meter D_{top}

WIL U-STRESS/U-CMP 2259 #D-TOP S76 R56.82 40HRLP DETREND
 DOF=15.7 LAGS=45.0 BW= 0.0593 CPD
 SPKTRA REV 7(NCSU)

Figure 217

Spectra of the low pass wind stress v component at Wilmington, 18 June-26 September, 1976 and low pass current velocity v component from meter D_{top}

WIL V-STRESS/V-CMP 2259 WD-TOP S76 R56.82 40HRLP DETREND
DOF=15.7 LAGS=15.0 BW= 0.0593 CPD

SPKTRN REV 7(NCSII)

Figure 218

Spectra of the low pass wind stress u component at Wilmington, 18 June-26 September, 1976 and low pass current velocity v component from meter D_{top}

WIL U-STRESS/V-CMP 2259 #D-TOP 976 R56.82 40HRLP DETREND
DOF=15.7 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 219

Spectra of the low pass wind stress v component at Wilmington, 18 June-26 September, 1976 and low pass current velocity u component from meter D_{top}

WIL V-STRESS/U-CIP 2259 #D-TOP 976 R56.82 40IRLP DETREND
DOF=15.7 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 220

Spectra of the low pass wind stress u component at Wilmington, 18 June-26 September, 1976 and low pass current velocity u component from meter D_{bot}

WIL U-STRESS/U-CIP 1908 #D-BOT S76 R14.99 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 221

Spectra of the low pass wind stress v component at Wilmington, 18 June-26 September, 1976 and low pass current velocity v component from meter D_{bot}

WIL V-STRESS/V-CMP 1908 #D-BOT S76 R14.99 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 222

Spectra of the low pass wind stress u component at Wilmington, 18 June-26 September, 1976 and low pass current velocity v component from meter D_{bot}

WIL U-STRESS/V-CMP 1908 #D-BOT S76 R14.99 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

WIL V-STRESS/U-CMP 1908 #D-BOT S76 R14.99 40HRLP DETREND
DOF=8.30 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 224

Spectra of the low pass wind stress u component at Wilmington, 18 June-26 September, 1976 and low pass current velocity u component from meter E_{top}

WIL U-STRESS/U-CMP 2256 #E-TOP 976 R49.79 40HRLP DETREND
DOF=19.6 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 225

Spectra of the low pass wind stress v component at Wilmington, 18 June-26 September, 1976 and low pass current velocity v component from meter E_{top}

WIL V-STRESS/V-CMP 2256 #E-TOP S76 R49.79 40HRLP DETREND
DOF=19.6 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 226

Spectra of the low pass wind stress u component at Wilmington, 18 June-26 September, 1976 and low pass current velocity v component from meter E_{top}

WIL U-STRESS/V-CMP 2256 #E-TOP S76 R49.79 40HRLP DETREND
DOF=19.6 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 227

Spectra of the low pass wind stress v component at Wilmington, 18 June-26 September, 1976 and low pass current velocity u component from meter E_{top}

WIL V-STRESS/U-CIP 2256 #E-TOP S76 R49.79 40HRLP DETREND
DOF=19.6 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSW)

Figure 228

Spectra of the low pass wind stress u component at Wilmington, 18 June-26 September, 1976 and low pass current velocity u component from meter F_{bot}

WIL U-STRESS/U-CMP 1906 #F-BOT S76 R46.10 40HRLP DETREND
DOF=15.8 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 229
Spectra of the low pass wind stress v component at Wilmington, 18 June-26 September, 1976 and low pass current velocity v component from meter F_{bot}

WIL V-STRESS/V-CMP 1906 #F-BOT S76 R46.10 40HRLP DETREND
DOF=15.8 LAGS=45.0 BW= 0.0593 CPD
SPKTRN REV 7(NCSU)

Figure 230

Spectra of the low pass wind stress u component at Wilmington, 18 June-26 September, 1976 and low pass current velocity v component from meter F_{bot}

WIL U-STRESS/V-CMP 1906 #F-BOT S76 R16.10 40HRLP DETREND
DOF=15.8 LAGS=45.0 BW= 0.0593 CPD

SPKTRA REV 7(NCSU)

Figure 231

Spectra of the low pass wind stress v component at Wilmington, 18 June-26 September, 1976 and low pass current velocity u component from meter F_{bot}

WIL V-STRESS/U-CMP 1906 #F-BOT S76 R16.10 40HRLP DETREND
 DOF=15.8 LAGS=45.0 BW= 0.0593 CPD
 SPKTRA REV 7(NCSU)

KINETIC ENERGY DENSITY SPECTRA U - COMPONENT A·TOP

Figure 232 Kinetic energy density spectra for current velocity, u-component, A_{top}

KINETIC ENERGY DENSITY SPECTRA
V - COMPONENT
A·TOP

Figure 233 Kinetic energy density spectra for current velocity, v-component, A_{top}

KINETIC ENERGY DENSITY SPECTRA U - COMPONENT B-TOP

Figure 234 Kinetic energy density spectra for current velocity, u-component, B_{top}

KINETIC ENERGY DENSITY SPECTRA V - COMPONENT B-TOP

Figure 235. Kinetic energy density spectra for current velocity, v-component, B_{top}

KINETIC ENERGY DENSITY SPECTRA U - COMPONENT C · TOP

Figure 236 Kinetic energy density spectra for current velocity, $\bar{u}$ -component, C_{top}

KINETIC ENERGY DENSITY SPECTRA V - COMPONENT C · TOP

Figure 237. Kinetic energy density spectra for current velocity, v-component, C_{top}

KINETIC ENERGY DENSITY SPECTRA TEMPERATURE C·TOP

Figure 238 Kinetic energy density spectra for temperature at C_{top}

KINETIC ENERGY DENSITY SPECTRA
U - COMPONENT
C - BOTTOM

Figure 239 Kinetic energy density spectra for current velocity, u-component, C_{bot}

KINETIC ENERGY DENSITY SPECTRA
V - COMPONENT
C - BOTTOM

Figure 240 Kinetic energy density spectra for current velocity, v-component, C_{bot}

KINETIC ENERGY DENSITY SPECTRA TEMPERATURE C·BOTTOM

Figure 241 Kinetic energy density spectra for temperature
at C_{bot}

KINETIC ENERGY DENSITY SPECTRA U - COMPONENT D·TOP

Figure 242 Kinetic energy density spectra for current velocity, u-component, D_{top}

KINETIC ENERGY DENSITY SPECTRA V - COMPONENT D-TOP

Figure 243 Kinetic energy density spectra for current velocity, v-component, D_{top}

KINETIC ENERGY DENSITY SPECTRA TEMPERATURE D·TOP

Figure 244 Kinetic energy density spectra for temperature at D_{top}

KINETIC ENERGY DENSITY SPECTRA
U - COMPONENT
D· BOTTOM

Figure 245 Kinetic energy density spectra for current velocity, u-component, D_{bot}

KINETIC ENERGY DENSITY SPECTRA V - COMPONENT D·BOTTOM

Figure 246 Kinetic energy density spectra for current velocity, v-component, D_{bot}

KINETIC ENERGY DENSITY SPECTRA TEMPERATURE D·BOTTOM

Figure 247 Kinetic energy density spectra for temperature at D_{bot}

KINETIC ENERGY DENSITY SPECTRA U - COMPONENT E·TOP

Figure 248 Kinetic energy density spectra for current velocity, u-component, E_{top}

KINETIC ENERGY DENSITY SPECTRA V - COMPONENT E·TOP

Figure 249 Kinetic energy density spectra for current velocity, v-component, E_{top}

KINETIC ENERGY DENSITY SPECTRA TEMPERATURE E·TOP

Figure 250 Kinetic energy density spectra for temperature at E_{top}

KINETIC ENERGY DENSITY SPECTRA U - COMPONENT E·BOTTOM

Figure 251 Kinetic energy density spectra for current velocity, u-component, E_{bot}

KINETIC ENERGY DENSITY SPECTRA V - COMPONENT E·BOTTOM

Figure 252 Kinetic energy density spectra for current velocity, v-component, E_{bot}

KINETIC ENERGY DENSITY SPECTRA TEMPERATURE E·BOTTOM

Figure 253 Kinetic energy density spectra for temperature
at E_{bot}

KINETIC ENERGY DENSITY SPECTRA U - COMPONENT F·BOTTOM

Figure 254 Kinetic energy density spectra for current velocity, u-component, F_{bot}

KINETIC ENERGY DENSITY SPECTRA V - COMPONENT F·BOTTOM

Figure 255 Kinetic energy density spectra for current velocity, v-component, F_{bot}

KINETIC ENERGY DENSITY SPECTRA TEMPERATURE F·BOTTOM

Figure 256 Kinetic energy density spectra for temperature
at F_{bot}

Figure 257 Momentum correlation variance in horizontal plane for C_{top} Summer, 1976 (cumulative)

Figure 258 Heat correlation variance in x-direction for C_{top} Summer, 1976 (cumulative)

Figure 259 Heat correlation variance in y-direction for C_{top} Summer, 1976 (cumulative)

Figure 260 Momentum correlation variance in horizontal plane for C_{bot} S76 0° Summer, 1976 (cumulative)

Figure 261

Heat correlation variance in x-direction
for C_bot Summer, 1976 (cumulative)

Figure 262 Heat correlation variance in y-direction for C_{bot} S76 0° Summer, 1976 (cumulative)

Figure 263

Momentum correlation variance in horizontal plane for D_{top} Summer, 1976 (cumulative)

Figure 264 Heat correlation variance in x-direction for D_{top} Summer, 1976 (cumulative)

Figure 265 Heat correlation variance in y-direction for D_{top} Summer, 1976 (cumulative)

Figure 266 Momentum correlation variance in horizontal plane for D_{bot} S76 0° Summer, 1976 (cumulative)

Figure 267 Heat correlation variance in x-direction
for D_{bot} Summer, 1976 (cumulative)

Figure 268

Heat correlation variance in y-direction
for D_{bot} Summer, 1976 (cumulative)

Figure 269

Momentum correlation variance in horizontal plane for E_{top} Summer, 1976 (cumulative)

Figure 271 Heat correlation variance in y-direction
for E_{top} Summer, 1976 (cumulative)

Figure 272. Momentum correlation variance in horizontal plane for E_{bot} Summer, 1976 (cumulative)

Figure 273 Heat correlation variance in x-direction for E_{bot} S76 0° Summer, 1976 (cumulative)

Figure 274 Heat correlation variance in y-direction for E_{bot} Summer, 1976 (cumulative)

Figure 275 Heat correlation variance in x-direction for F_{bot} S76 0° Summer, 1976 (cumulative)

Figure 276 Heat correlation variance in y-direction for F_{bot} Summer, 1976 (cumulative)

Figure 277

Momentum correlation variance in the horizontal plane for C_{top} Summer, 1976 (2-day subset)

C-TOP S76 R0 T'U' 2-DAY SUBSETS

Figure 278

Heat correlation variance in the x-direction
for C_{top} Summer, 1976 (2-day subset)

C-TOP STE RO T'V' 2-DAY SUBSETS

Figure 279 Heat correlation variance in the y-direction for C_{top} Summer, 1976 (2-day subset)

Figure 280 Momentum correlation variance in the horizontal plane for C_{bot} Summer, 1976 (2-day subset)

C-BOT S76 R0 T'U' 2-DAY SUBSETS

Figure 281 Heat correlation variance in the x-direction
for C_{bot} Summer, 1976 (2-day subset)

C-BOT 876 R0 T101 2-DAY SUBSETS

Figure 282 Heat correlation variance in the y-direction for C_{bot} Summer, 1976 (2-day subset)

Figure 283

Momentum correlation variance in the horizontal plane for D_{top} Summer, 1976 (2-day subset)

D-TOP 976 R0 T'U' 2-DAY SUBSETS

Figure 284 Heat correlation variance in the x-direction for D_{top} Summer, 1976 (2-day subset)

D-TOP 976 R0 T'V' 2-DAY SUBSETS

Figure

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Heat correlation variance in the y-direction
for D_{top} Summer, 1976 (2-day subset)

Figure 286 Momentum correlation variance in the horizontal plane for D_{bot} Summer, 1976 (2-day subset)

Figure 287 Heat correlation variance in the x-direction
for D_{bot} Summer, 1976 (2-day subset)

Figure 288 Heat correlation variance in the y-direction
for D_{bot} Summer, 1976 (2-day subset)

Figure

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Momentum correlation variance in the horizontal plane for E_{top} Summer, 1976 (2-day subset)

Figure 290 Heat correlation variance in the x-direction
for E_{top} Summer, 1976 (2-day subset)

Figure 291 Heat correlation variance in the y-direction
for E_{top} Summer, 1976 (2-day subset)

E-BOT S76 R0 U'U' 2-DAY SUBSETS

Figure 292 Momentum correlation variance in the horizontal plane for E_{bot} Summer, 1976 (2-day subset)

E-BOT 976 R0 T'U' 2-DAY SUBSETS

Figure 293 Heat correlation variance in the x-direction for E_{bot} Summer, 1976 (2-day subset)

E-BOT 976 R0 T'U' 2-DAY SUBSETS

Figure

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Heat correlation variance in the y-direction
for E_{bot} Summer, 1976 (2-day subset)

Figure 295. Momentum correlation variance in the horizontal plane for F_{bot} Summer, 1976 (2-day subset)

F-BOT 876 R0 T/U/ 2-DAY SUBSETS

Figure 296 Heat correlation variance in the x-direction for F_{bot} Summer, 1976 (2-day subset)

Figure 297 Heat correlation variance in the y-direction for F_{bot} Summer, 1976 (2-day subset)

C-TOP U' V' FLUX (CM/SEC)², JULY 76

Figure 298 Momentum correlation variance in horizontal plane for C_{top} , July 14-23, 1976.

C-TOP U' T' FLUX (C° * CM/SEC), JULY 76

Figure 299 Heat correlation variance in x-direction for C_{top} , July 14-23, 1976.

C-TOP V'T' FLUX (C°*CM/SEC), JULY 76

Figure 300 Heat correlation variance in y-direction for C_{top} , July 14-23, 1976.

C-BOT U'V' FLUX (CM/SEC)², JULY 76

Figure 301 Momentum correlation variance in horizontal plane for C_{bot}, July 14-23, 1976.

C-BOT U' T' FLUX (C°*CM/SEC), JULY 76

Figure 302 Heat correlation variance in x-direction for C_{bot} , July 14-23, 1976.

Figure 303 Heat correlation variance in y-direction for C_{bot} , July 14-23, 1976.

D-TOP U' V' FLUX (CM/SEC)², JULY 76

Figure 304 Momentum correlation variance in horizontal plane for D_{top} , July 14-23, 1976.

D-TOP U' T' FLUX (C°*CM/SEC), JULY 76

Figure 305 Heat correlation variance in x-direction for D_{top}, July 14-23, 1976.

D-TOP $V'T'$ FLUX ($C^{\circ} \cdot CM/SEC$), JULY 76

Figure

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Heat correlation variance in y-direction for D_{top} , July 14-23, 1976.

D-BOT U'V' FLUX (CM/SEC)², JULY 76

Figure 307 Momentum correlation variance in horizontal plane for D_{bot} , July 14-23, 1976.

D-BOT U'T' FLUX (C°*CM/SEC), JULY 76

Figure 308 Heat correlation variance in x-direction for D_{bot} , July 14-23, 1976.

D-BOT V'T' FLUX (C°*CM/SEC), JULY 76

Figure 309 Heat correlation variance in y-direction for D_{bot} , July 14-23, 1976.

E-TOP U' V' FLUX (CM/SEC)² , JULY 76

Figure 310 Momentum correlation variance in horizontal plane for E_{top} July 14-23, 1976.

E-TOP U'T' FLUX (C°*CM/SEC) , JULY 76

Figure 311 Heat correlation variance in x-direction for E_{top} July 14-23, 1976.

E-TOP V'T' FLUX (C°*CM/SEC), JULY 76

Figure 312 Heat correlation variance in y-direction for E_{top} July 14-23, 1976.

E-BOT $U'V'$ FLUX (CM/SEC)², JULY 76

Figure 313 Momentum correlation variance in horizontal plane for E_{bot} July 14-23, 1976.

E-BOT U'T' FLUX (C°*CM/SEC), JULY 76

Figure 314 Heat correlation variance in x-direction for E_{bot} July 14-23, 1976.

E-BOT V'T' FLUX (C°*CM/SEC), JULY 76

Figure 315 Heat correlation variance in y-direction for E_{bot} July 14-23, 1976.

F-BOT $U'V'$ FLUX (CM/SEC)², JULY 76

Figure 316 Momentum correlation variance in horizontal plane for F_{bot} July 14-23, 1976.

F-BOT U'T' FLUX (C°*CM/SEC), JULY 76

Figure 317 Heat correlation variance in x-direction for F_{bot} July 14-23, 1976.

Figure 318 Heat correlation variance in y-direction for F_{bot} July 14-23, 1976.

Figure 319 Cospectra of temperature vs. u-component for meter C_{top}

Figure 320 Cospectra of temperature vs. v-component for
meter C_{top}

Figure 321 Cospectra of temperature vs. u-component for meter C_{bot}

Figure 322 Cospectra of temperature vs. v-component for meter C_{bot}

Figure 323 Cospectra of temperature vs. u-component
for meter D_{top}

Figure 324 Cospectra of temperature vs. v-component
for meter D_{top}

Figure 325 Cospectra of temperature vs. u-component
for meter D_{bot}

Figure 326 Cospectra of temperature vs. v-component
for meter D_{bot}

Figure 327 Cospectra of temperature vs. u-component
for meter E_{top}

Figure 328 Cospectra of temperature vs. v-component
for meter E_{top}

Figure 329 Cospectra of temperature vs. u-component
for meter F_{bot}

Figure 330 Cospectra of temperature vs. v-component
for meter F_{bot}

KINETIC ENERGY DENSITY SPECTRA
WILMINGTON, N.C.
WIND COMPONENTS U

Figure 331 Kinetic energy density spectra for u-component of wind velocity at Wilmington, N.C.

KINETIC ENERGY DENSITY SPECTRA WILMINGTON, N.C. WIND COMPONENTS V

Figure 332 Kinetic energy density spectra for v-component of wind velocity at Wilmington, N.C.

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KINETIC ENERGY DENSITY SPECTRA WILMINGTON, N.C. WIND STRESS V

Figure 334 Kinetic energy density spectra for v-component of wind stress at Wilmington, N.C.

KINETIC ENERGY DENSITY SPECTRA
CAPE HATTERAS, N.C.
WIND COMPONENTS U

Figure 335 Kinetic energy density spectra for u-component of wind velocity at Cape Hatteras, N.C.

KINETIC ENERGY DENSITY SPECTRA CAPE HATTERAS, N.C. WIND COMPONENTS V

Figure 336 Kinetic energy density spectra for v-component of wind velocity at Cape Hatteras, N.C.

KINETIC ENERGY DENSITY SPECTRA CAPE HATTERAS, N.C. WIND STRESS U

Figure 337 Kinetic energy density spectra for u-component of wind stress at Cape Hatteras, N.C.

KINETIC ENERGY DENSITY SPECTRA
CAPE HATTERAS, N.C.
WIND STRESS V

Figure 338 Kinetic energy density spectra for v-component of wind stress at Cape Hatteras, N.C.

HODOGRAPH PARAMETERS - WILMINGTON WIND

Figure 339 Hodograph parameters of Wilmington, N.C. wind velocity.

Figure 340 Hodograph parameters of Wilmington, N.C. wind stress.

Figure 341 Hodograph parameters of Cape Hatteras, N.C. wind velocity.

Figure 342 Hodograph parameters of Cape Hatteras, N.C. wind stress.

3HRLP
VELOCITY COMPONENTS
A·TOP

Figure 343 3HRLP velocity components for A_{top}

3HRLP VELOCITY COMPONENTS B·TOP

Figure 344 3HRLP velocity components for B_{top}

3HRLP VELOCITY COMPONENTS C·TOP

Figure 345 3HRLP velocity components for C_{top}

Figure 346 3HRLP temperature for C_{top}

3HRLP
VELOCITY COMPONENTS
C · BOTTOM

Figure 347 3HRLP velocity components for C_{bot}

Figure 348 3HRLP temperature for C_{bot}

3HRLP VELOCITY COMPONENTS D·TOP

Figure 349 3HRLP velocity components for D_{top}

3HRLP
TEMPERATURE
D·TOP

Figure 350 3HRLP temperature for D_{top}

3HRLP
VELOCITY COMPONENTS
D. BOTTOM

Figure 351 3HRLP velocity components for D_{bot}

Figure 352 3HRLP temperature for D_{bot}

3HRLP VELOCITY COMPONENTS E·TOP

Figure 353 3HRLP velocity components for E_{top}

3HRLP
TEMPERATURE
E·TOP

Figure 354 3HRLP temperature for E_{top}

Figure 355 3HRLP velocity components for E_{bot}

3HRLP VELOCITY COMPONENTS E-BOTTOM

Figure 356 3HRLP velocity components for E_{bot}

Figure 357 3HRLP temperature for E_{bot}

3HRLP
VELOCITY COMPONENTS
F·BOTTOM

Figure 358 3HRLP velocity components for F_{bot}

Figure 359 3HRLP temperature for F_{bot}

3HRLP WILMINGTON, N.C. - WIND COMPONENTS

Figure 360 3HRLP wind velocity components for
Wilmington, N.C.

3HRLP
WILMINGTON, N.C. - WIND STRESS

Figure 361 3HRLP wind stress components for
Wilmington, N.C.

3HRLP
CAPE HATTERAS, N.C.
WIND COMPONENTS

U COMP
CM/S

1500.0
1200.0
900.0
600.0
300.0
0.0
-300.0
-600.0
-900.0

Figure 362 3HRLP wind velocity components
for Cape Hatteras, N.C.

V COMP
CM/S

1800.0
1500.0
1200.0
900.0
600.0
300.0
0.0
-300.0
-600.0
-900.0
-1200.0

18 23 28 3 8 13 18 23 28 2 7 12 17 22 27 1 6 11 16 21 26 1
JULY AUG SEPT

3HRLP
CAPE HATTERAS, N.C. - WIND STRESS

Figure 363 3HRLP wind stress components
for Cape Hatteras, N.C.

Figure 364 Mean velocity for July 23-Aug. 22, 1976
(top meters)

Figure 365 Mean velocity for Summer 1976

Figure 366 Principal axes and root mean square velocities for Moorings A-F

Figure 367 Tidal ellipses for July 23-Aug. 22, 1976
(top meters)

Figure 368 Tidal ellipses for Summer 1976

Figure 369 Energy fraction vs. frequency for C_{top} total current

Figure 370 Energy fraction vs. frequency for C_{top} offshore current

Figure 371 Energy fraction vs. frequency for C_{top} alongshore current

Figure 372 Energy fraction vs. frequency for C_{bot} total current

Figure 373 Energy fraction vs. frequency for C_{bot} offshore current

Figure 374 Energy fraction vs. frequency for C_{bot} alongshore current