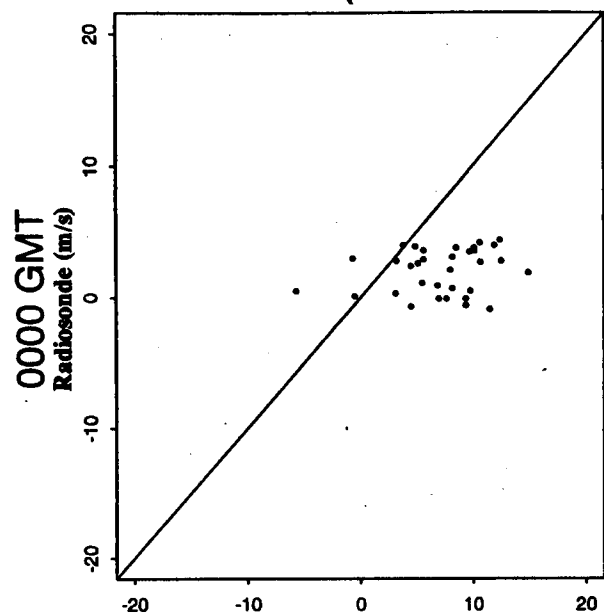


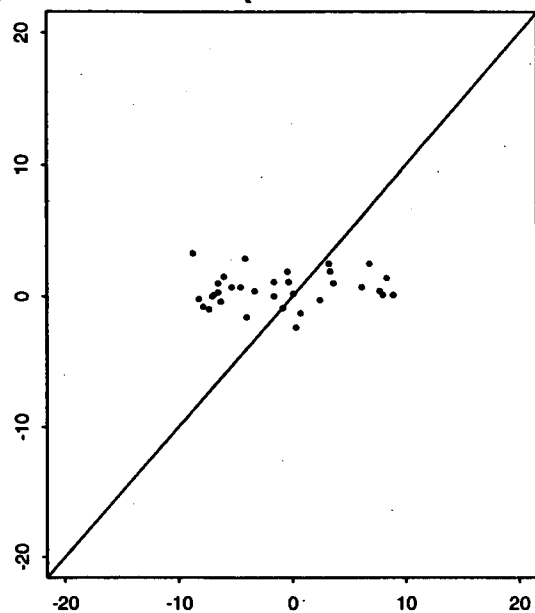
July 1997

**SCATTER PLOTS OF U AND V WIND COMPONENTS AND WIND SPEEDS AND
HISTOGRAMS OF DIFFERENCES BETWEEN U AND V WIND COMPONENT,
WIND SPEED, AND WIND DIRECTION DATA FOR RADAR WIND PROFILER
(RWP) AND RADIOSONDE SITE PAIRS LOCATED IN THE SOUTHEAST
DESERT AIR BASIN (SEDAB)**

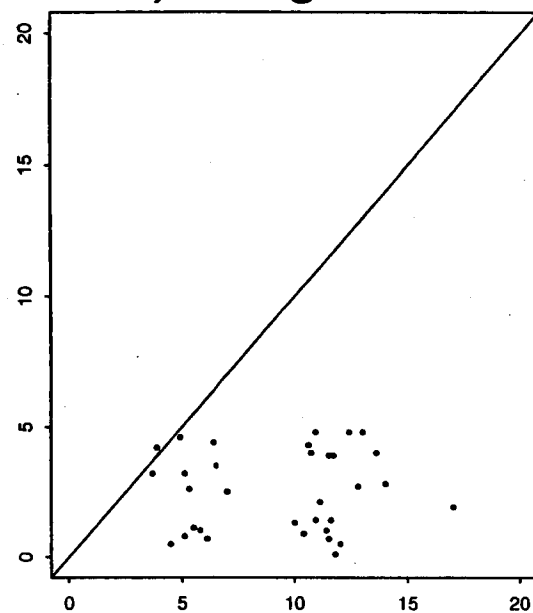
EDWR (Radiosonde) vs MOJ (Radar Wind Profiler), Height=300M



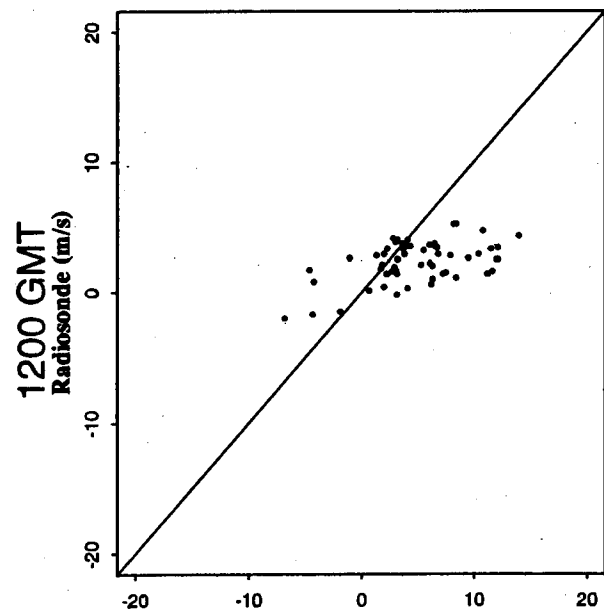
U-Component (m/s)



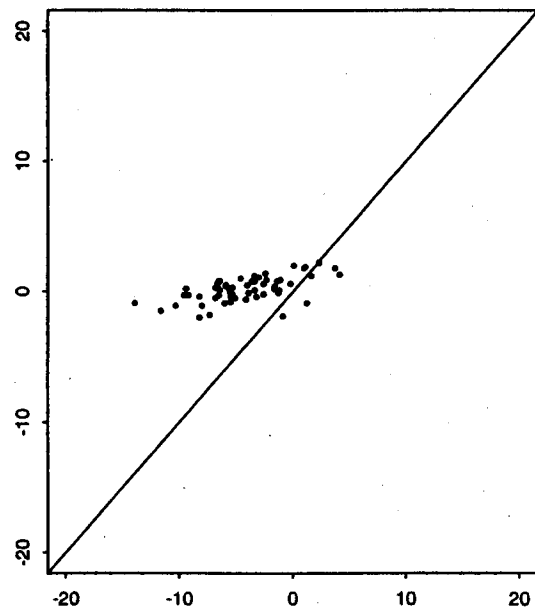
V-Component (m/s)



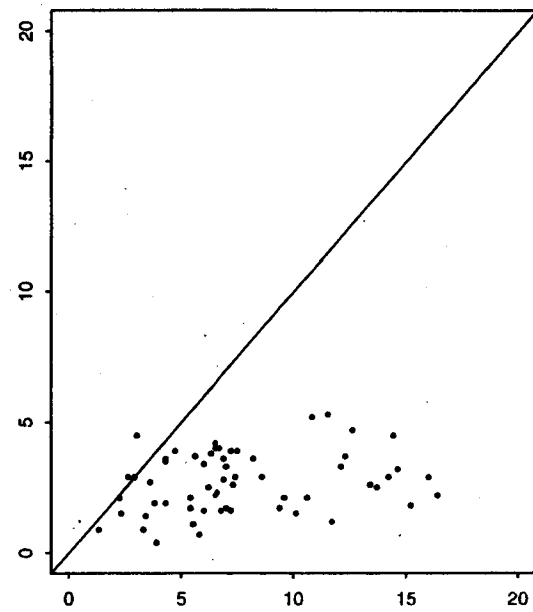
Wind Speed (m/s)



Radar Wind Profiler (m/s)

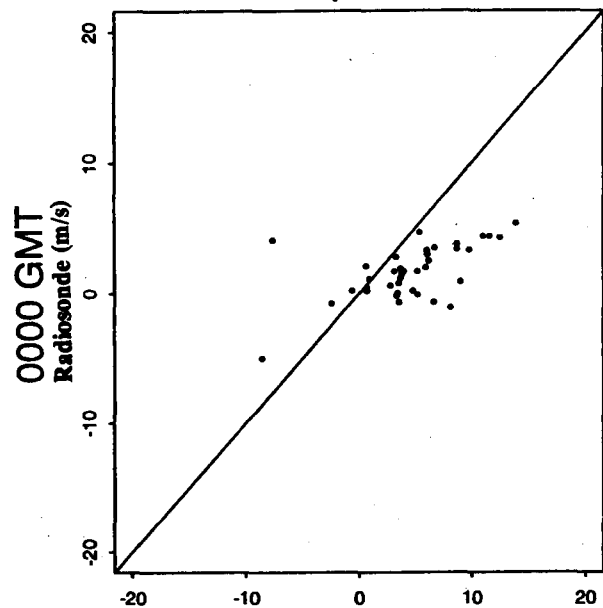


Radar Wind Profiler (m/s)

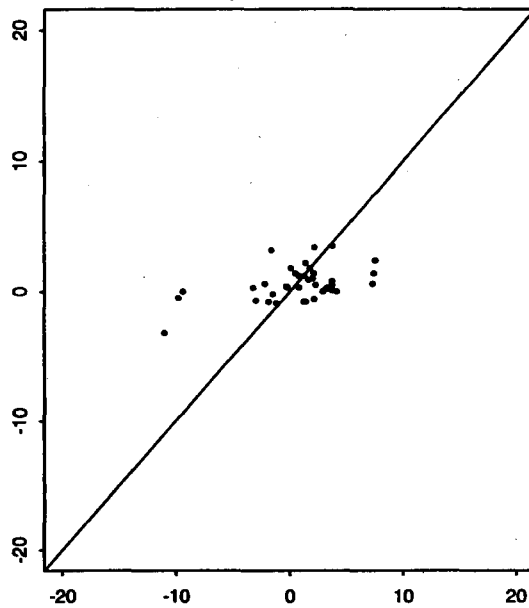


Radar Wind Profiler (m/s)

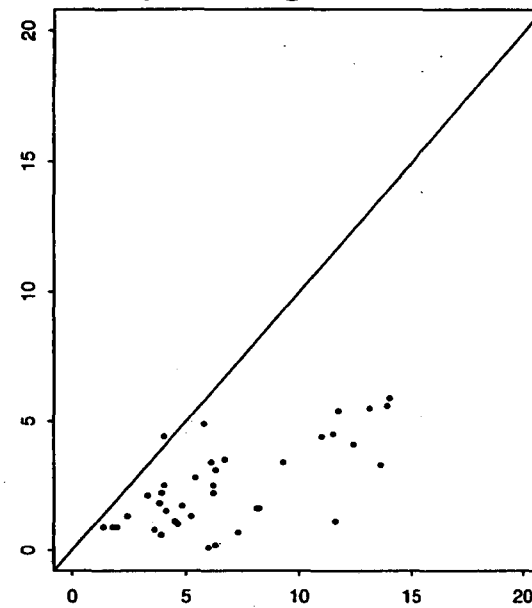
EDWR (Radiosonde) vs MOJ (Radar Wind Profiler), Height=1000M



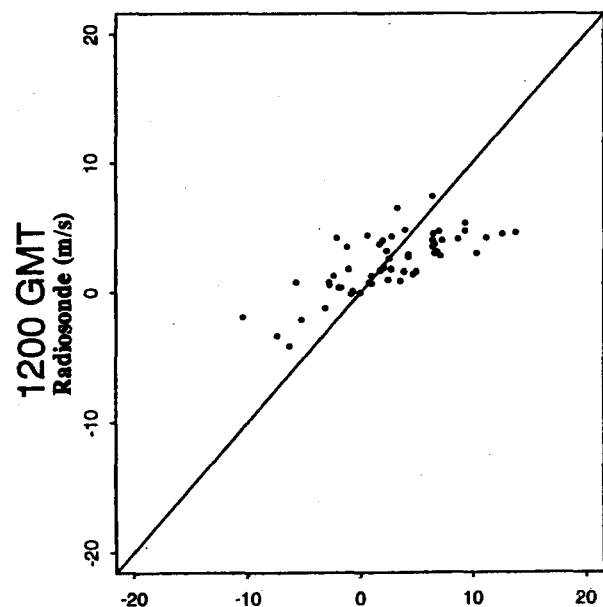
U-Component (m/s)



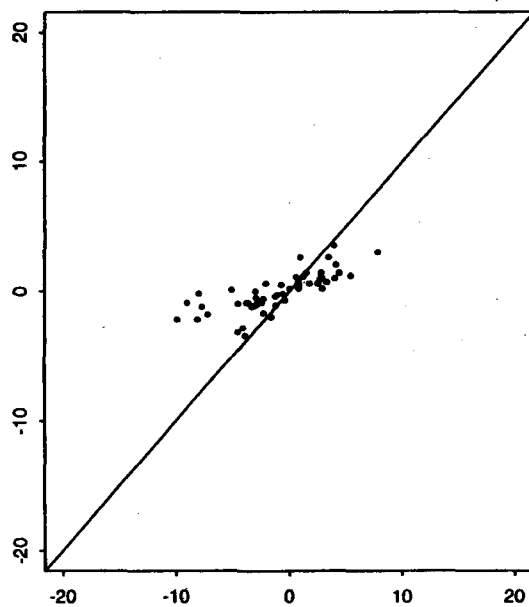
V-Component (m/s)



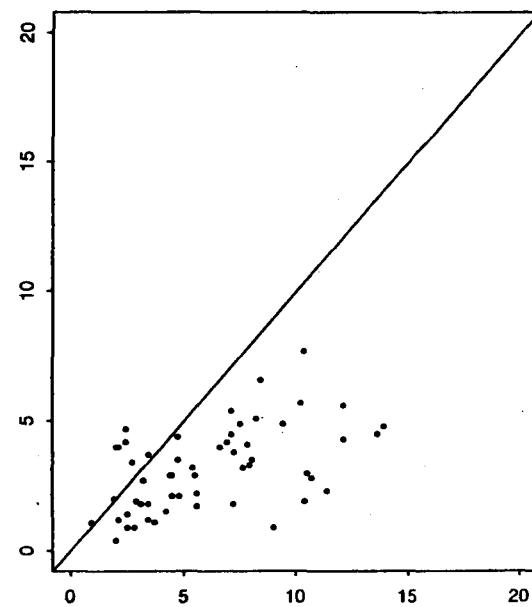
Wind Speed (m/s)



Radar Wind Profiler (m/s)

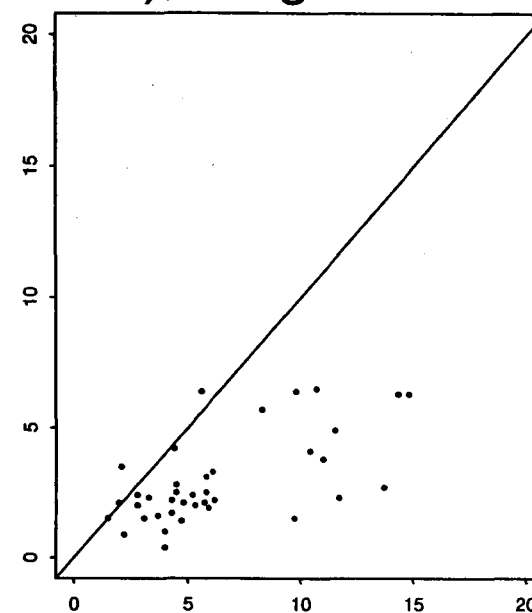
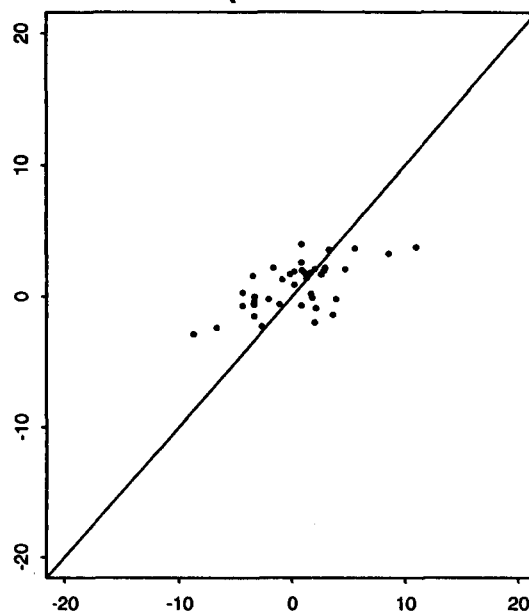
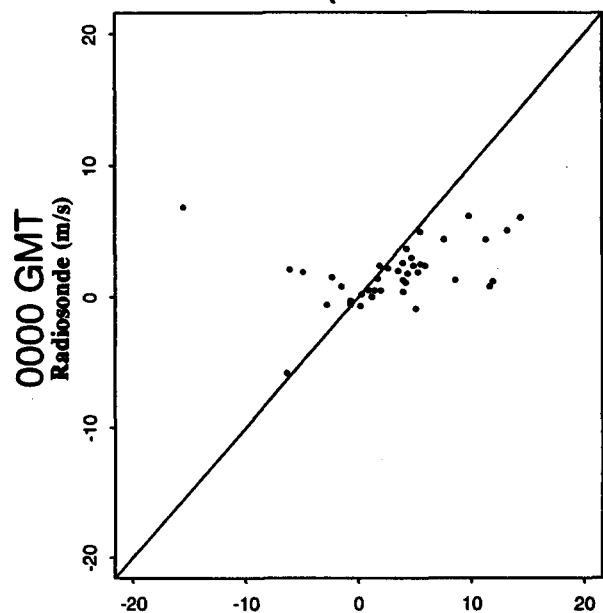


Radar Wind Profiler (m/s)



Radar Wind Profiler (m/s)

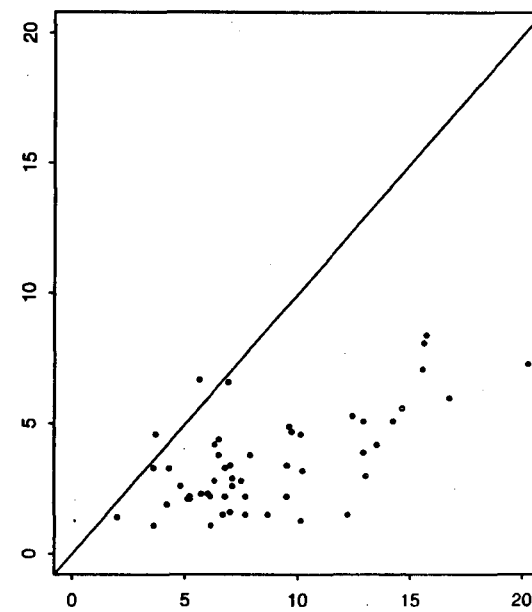
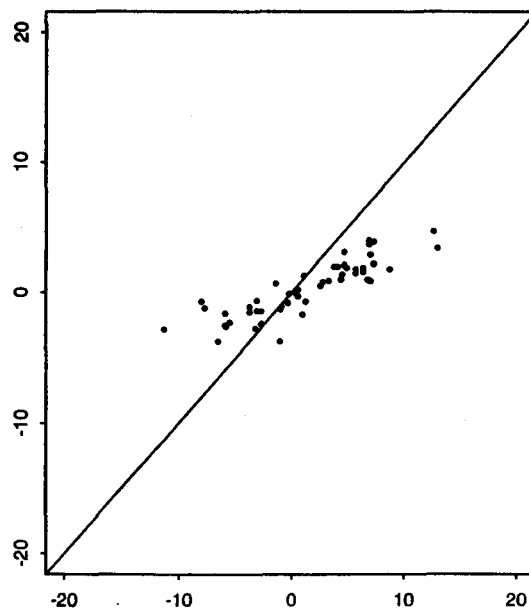
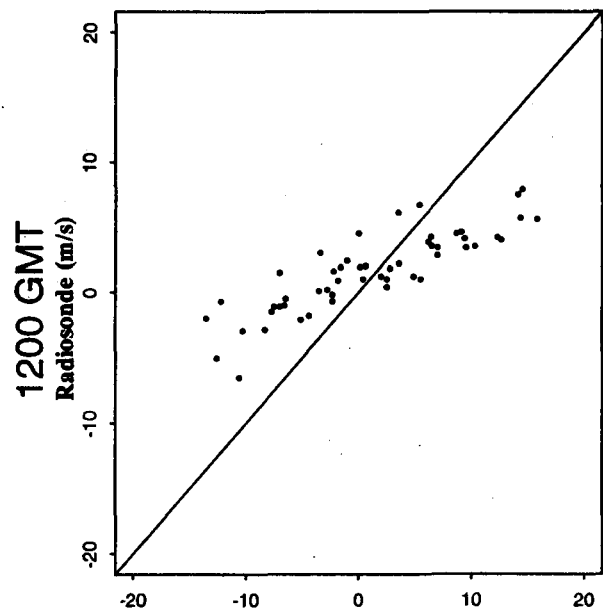
EDWR (Radiosonde) vs MOJ (Radar Wind Profiler), Height=2000M



U-Component (m/s)

V-Component (m/s)

Wind Speed (m/s)



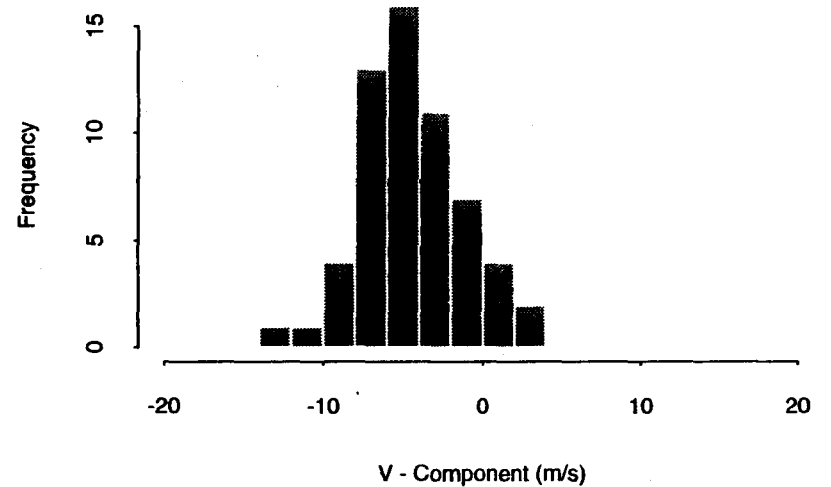
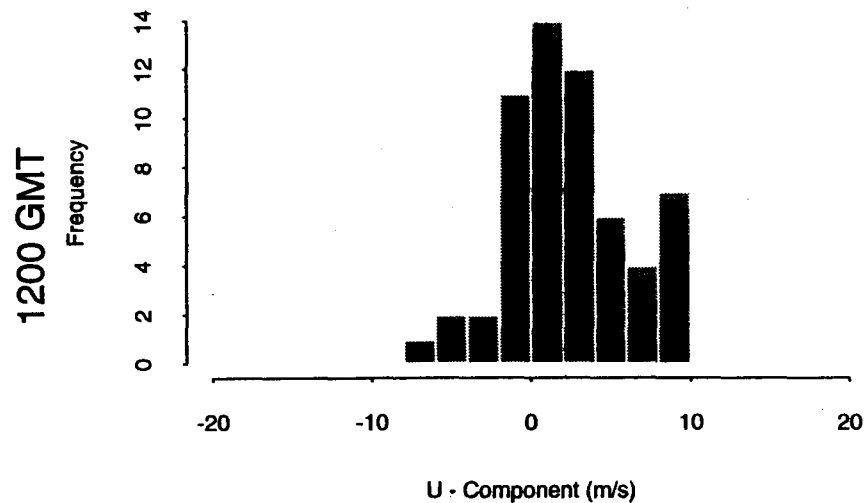
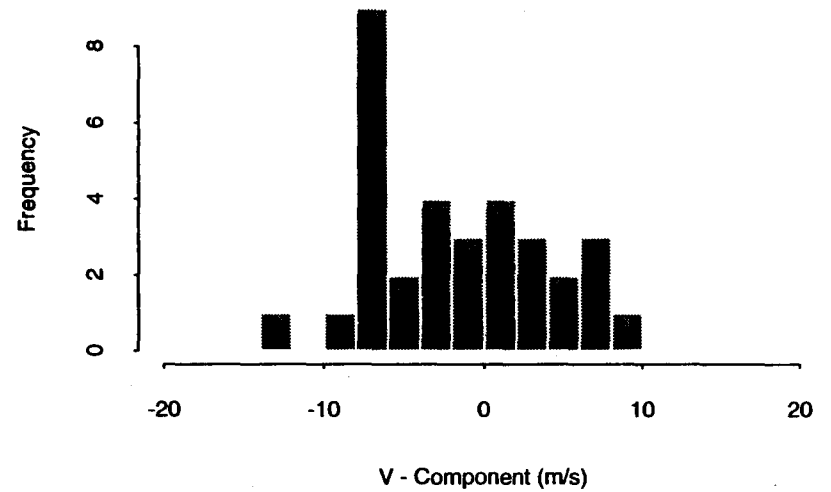
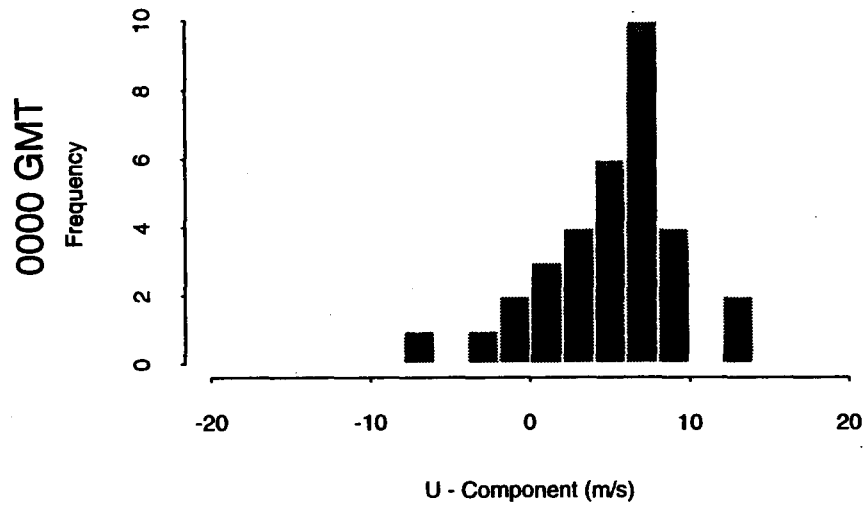
Radar Wind Profiler (m/s)

Radar Wind Profiler (m/s)

Radar Wind Profiler (m/s)

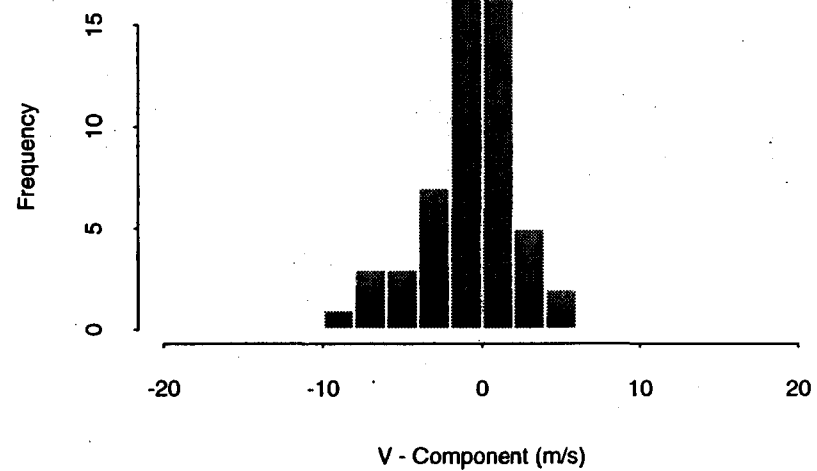
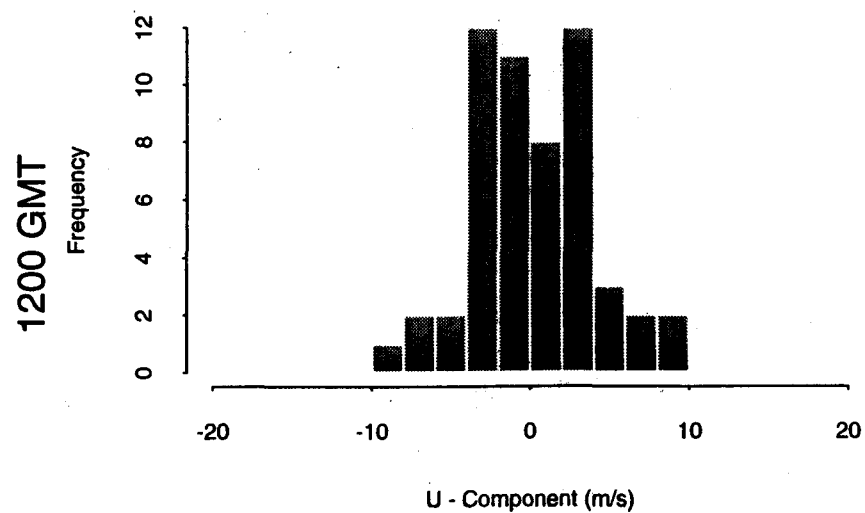
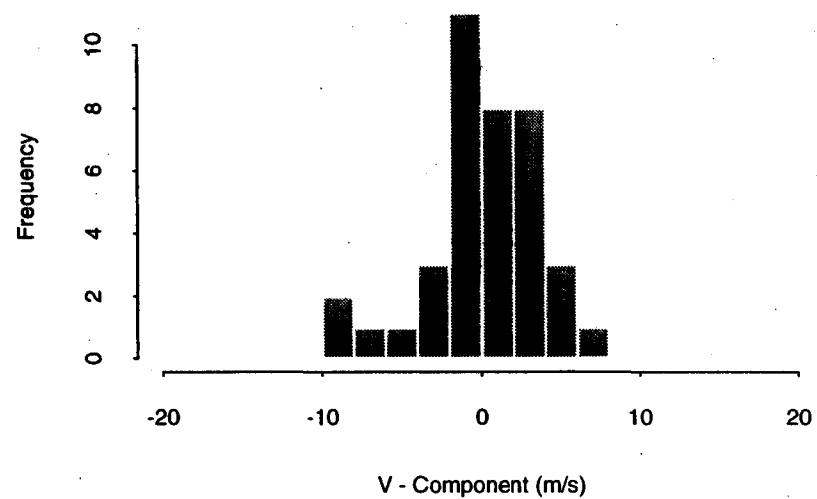
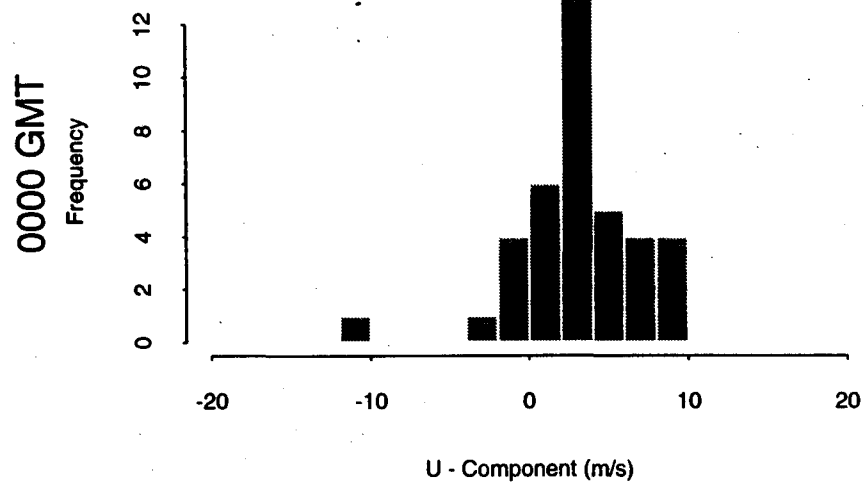
Frequency Distribution of Differences

MOJ (Radar Wind Profiler) - EDWR (Radiosonde), 300M



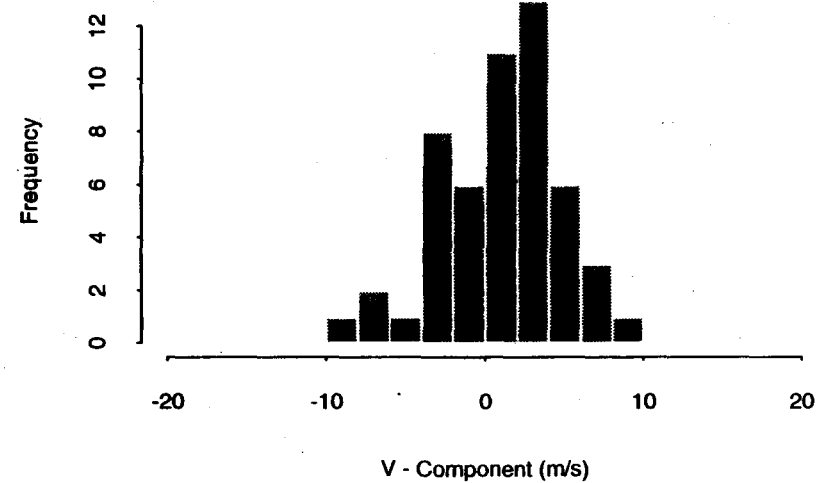
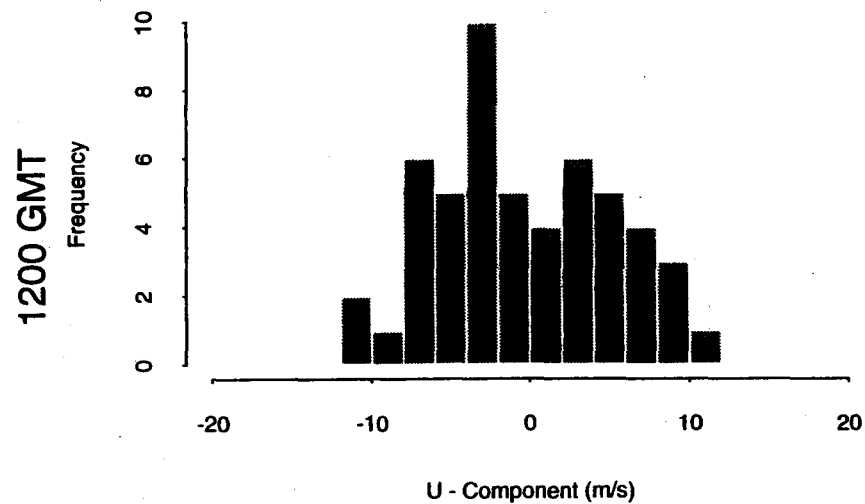
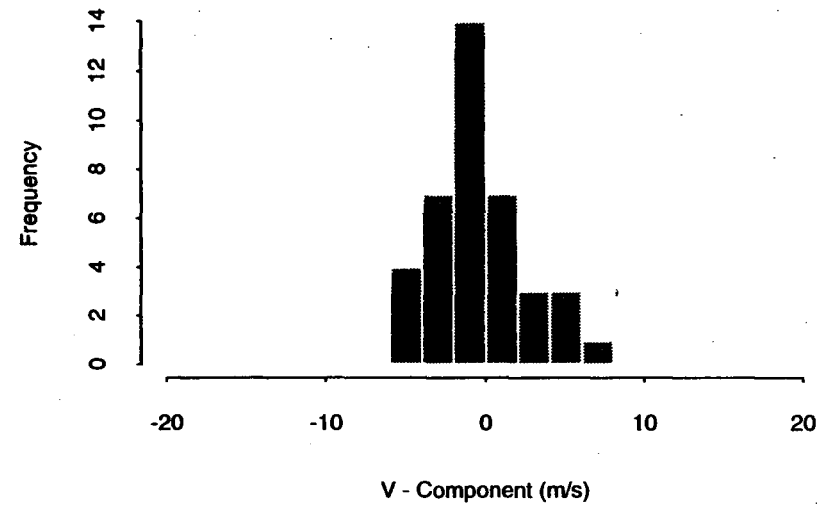
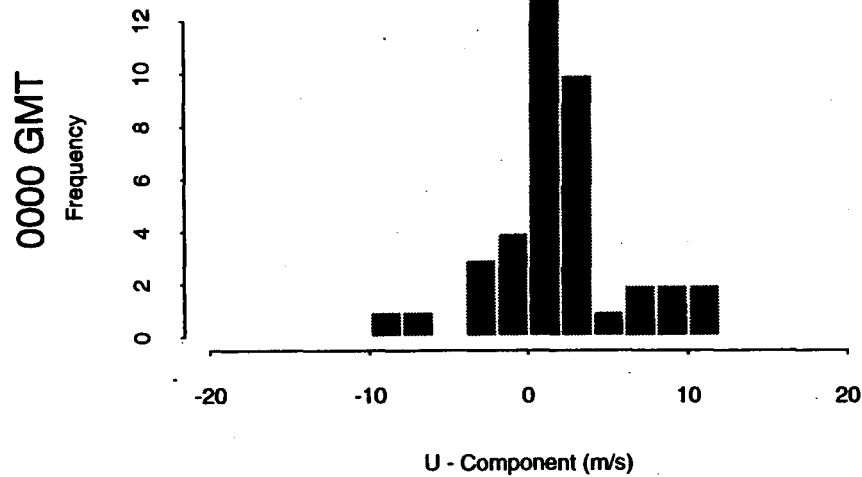
Frequency Distribution of Differences

MOJ (Radar Wind Profiler) - EDWR (Radiosonde), 1000M



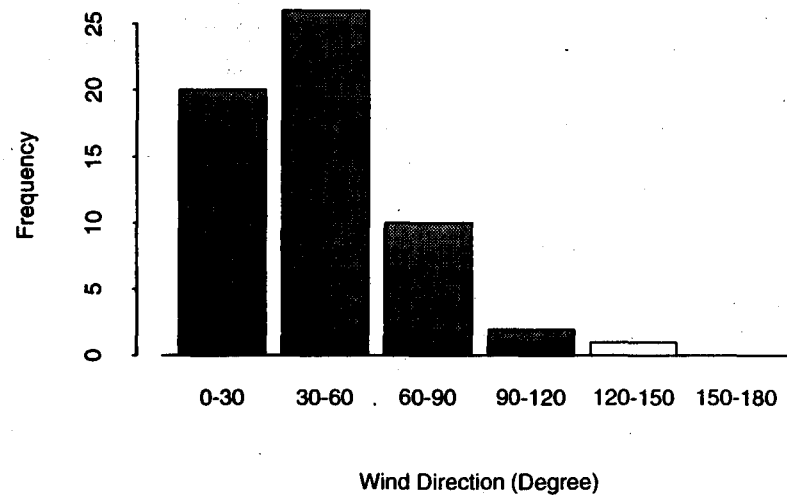
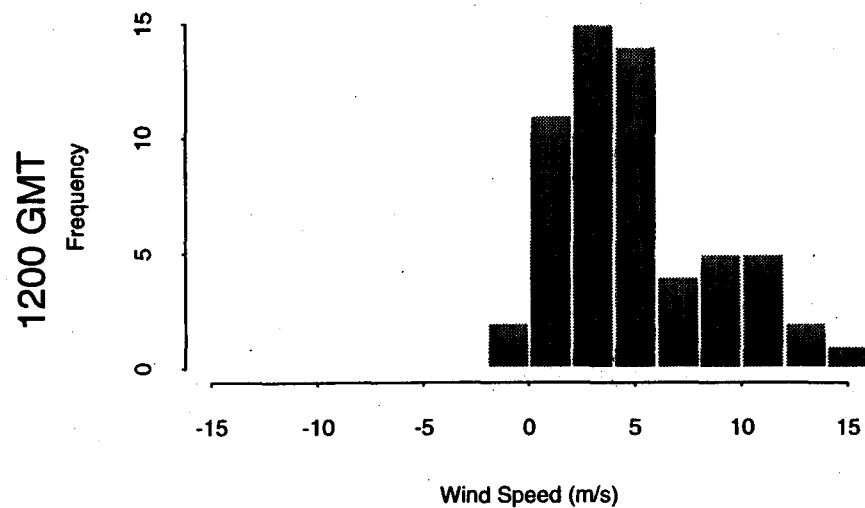
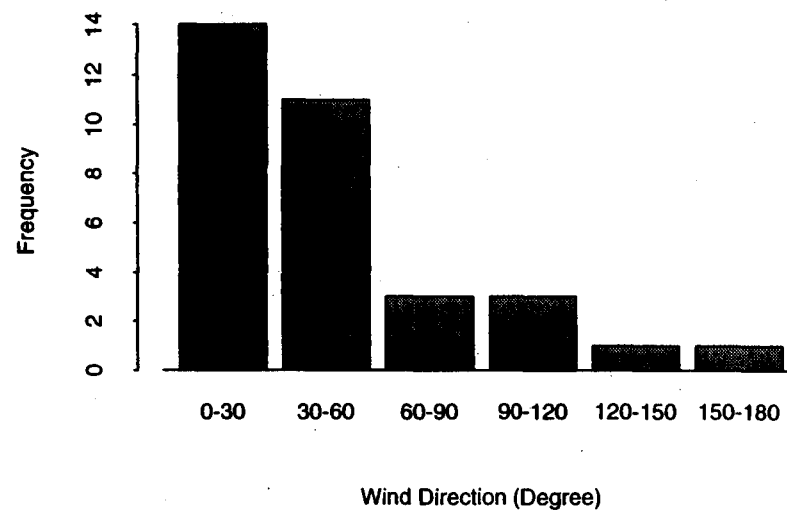
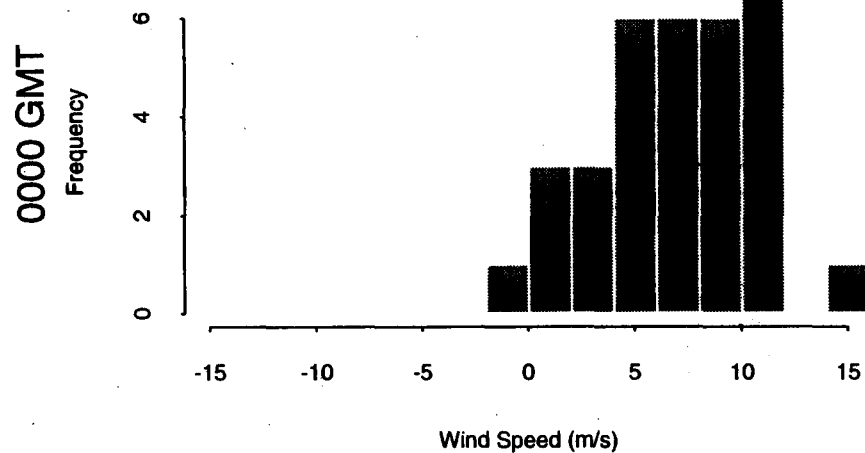
Frequency Distribution of Differences

MOJ (Radar Wind Profiler) - EDWR (Radiosonde), 2000M



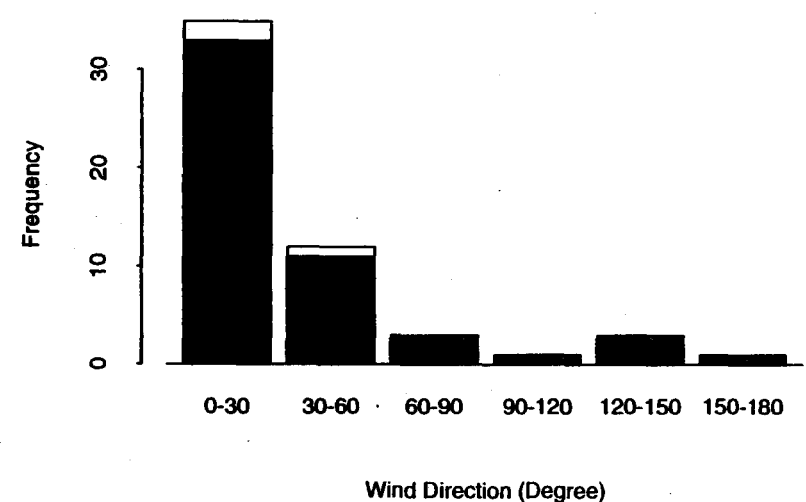
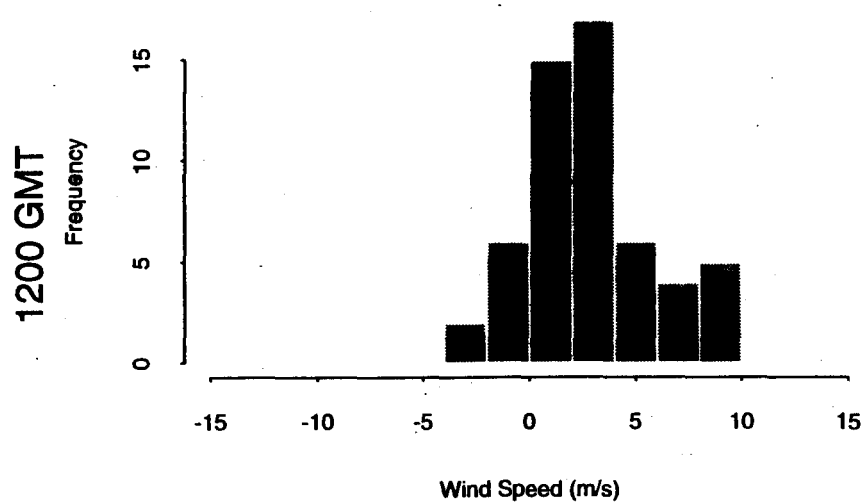
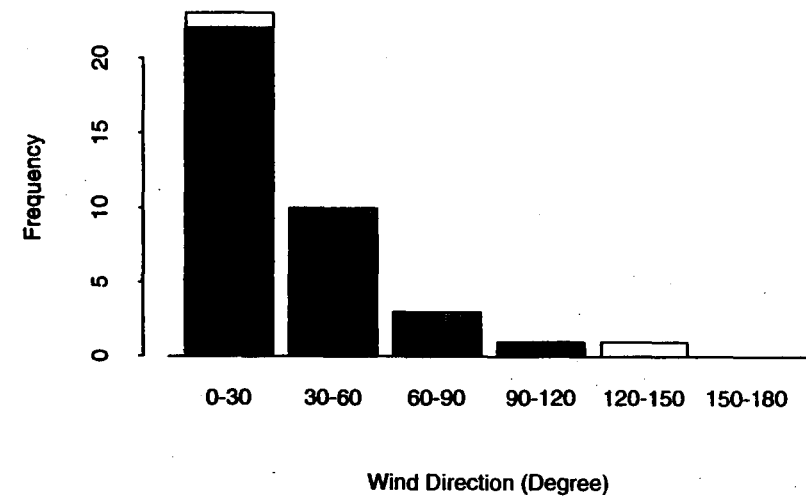
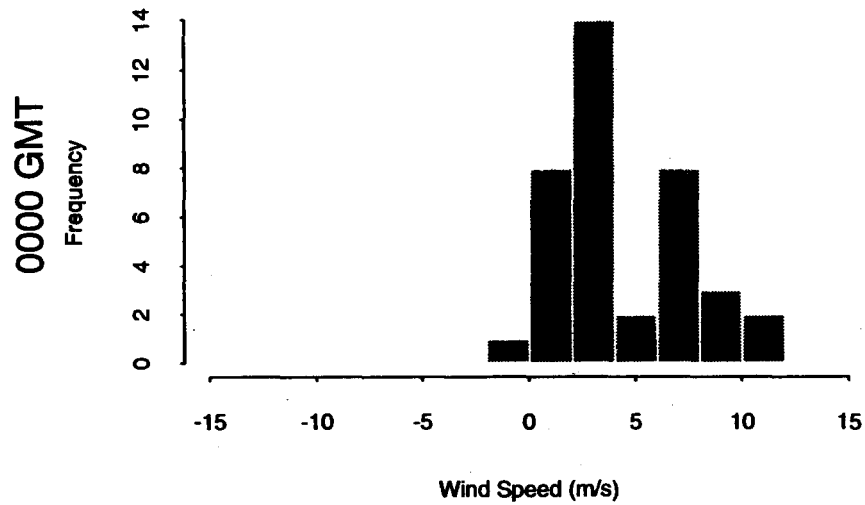
Frequency Distribution of Differences

MOJ (Radar Wind Profiler) - EDWR (Radiosonde), 300M



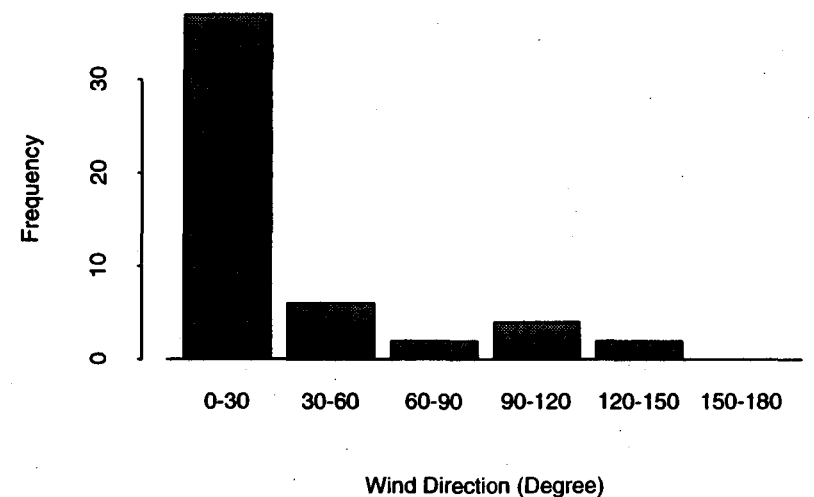
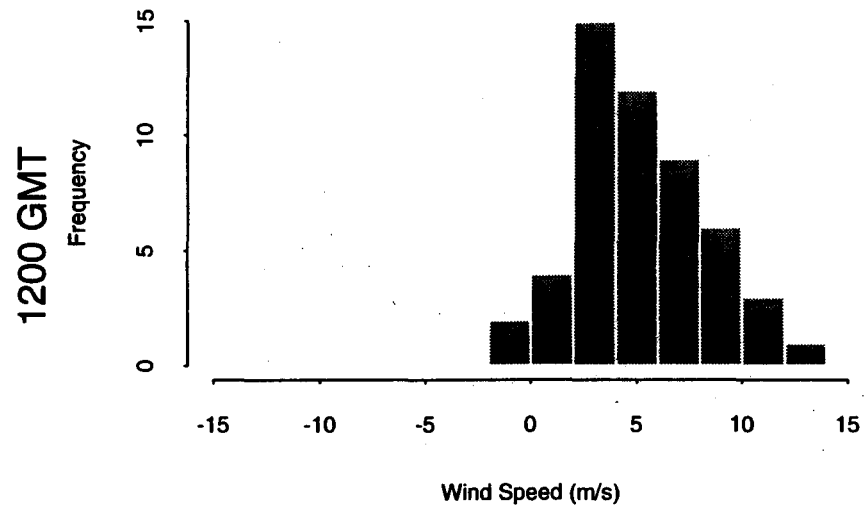
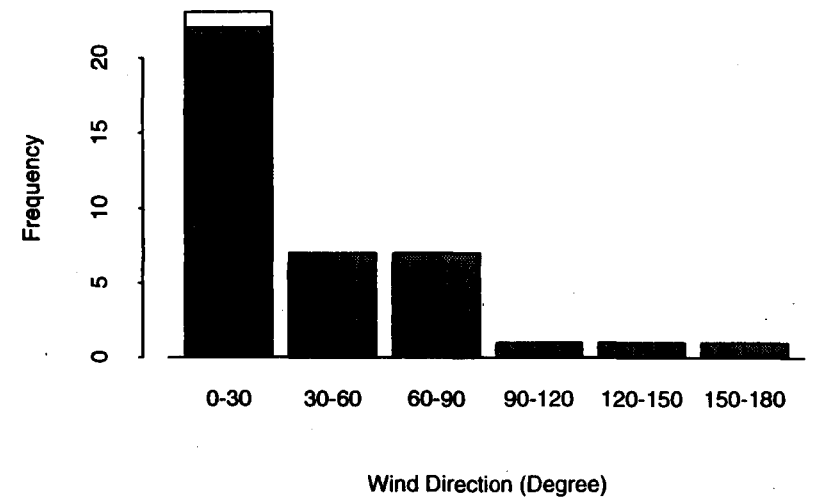
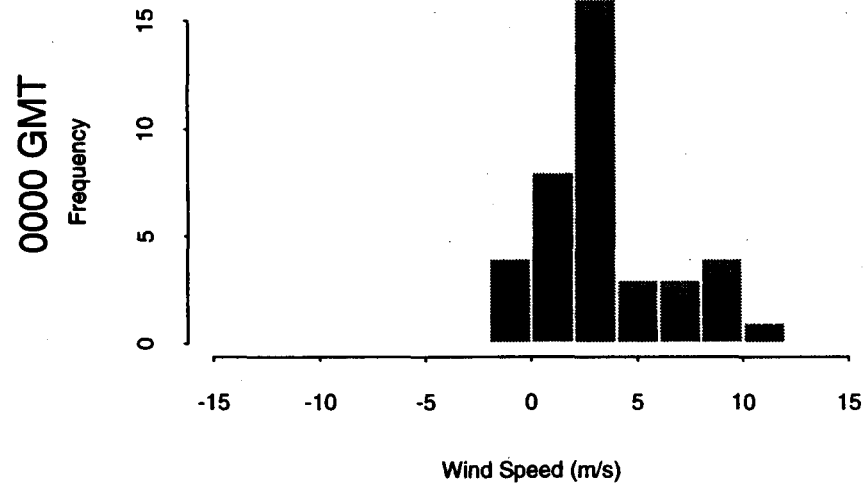
Frequency Distribution of Differences

MOJ (Radar Wind Profiler) - EDWR (Radiosonde), 1000M

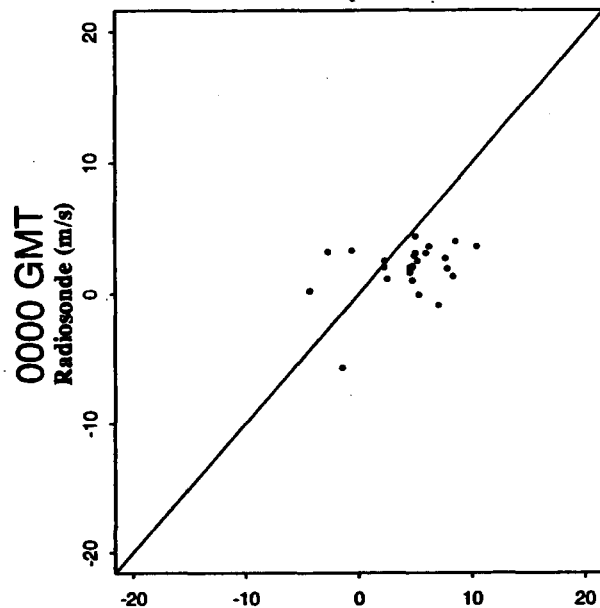


Frequency Distribution of Differences

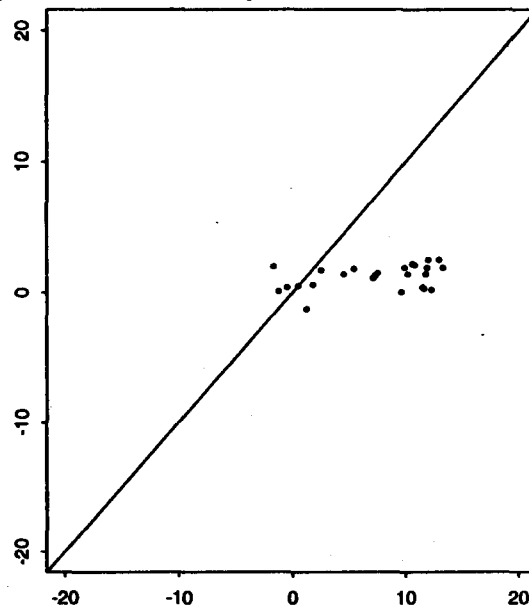
MOJ (Radar Wind Profiler) - EDWR (Radiosonde), 2000M



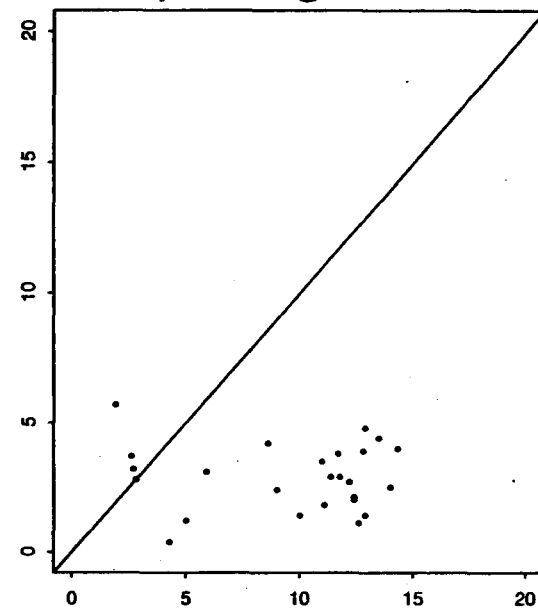
EDWR (Radiosonde) vs BAR (Radar Wind Profiler), Height=300M



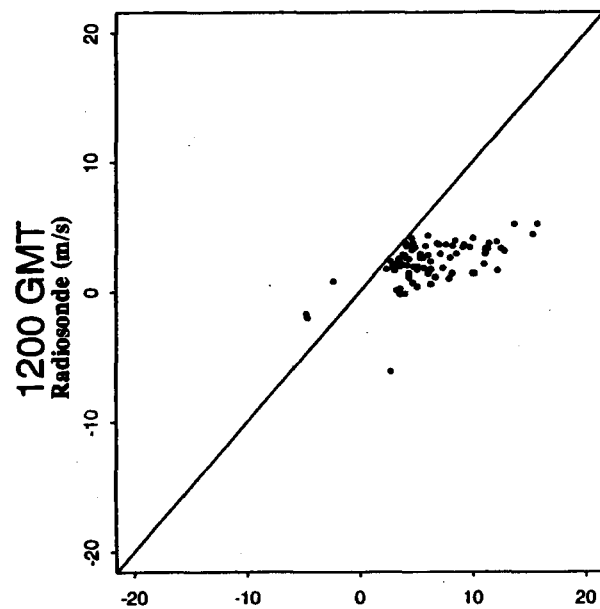
U-Component (m/s)



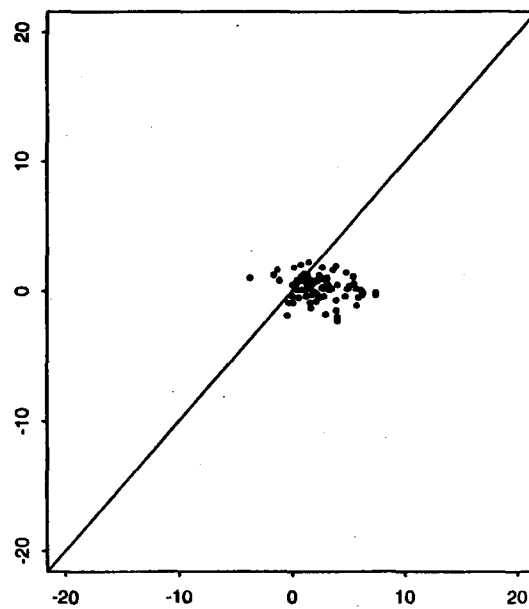
V-Component (m/s)



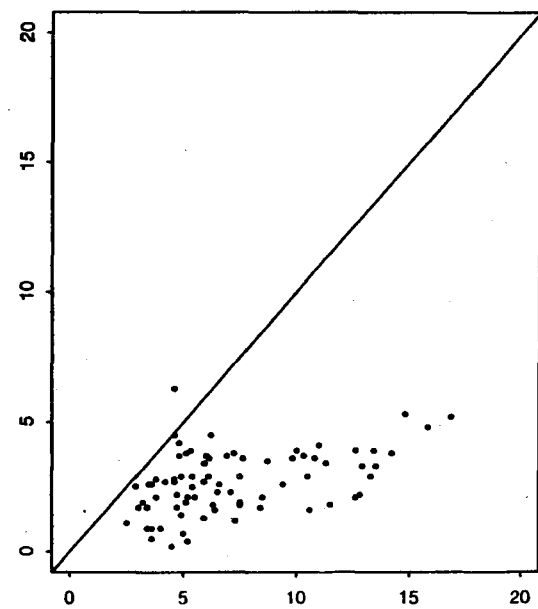
Wind Speed (m/s)



Radar Wind Profiler (m/s)

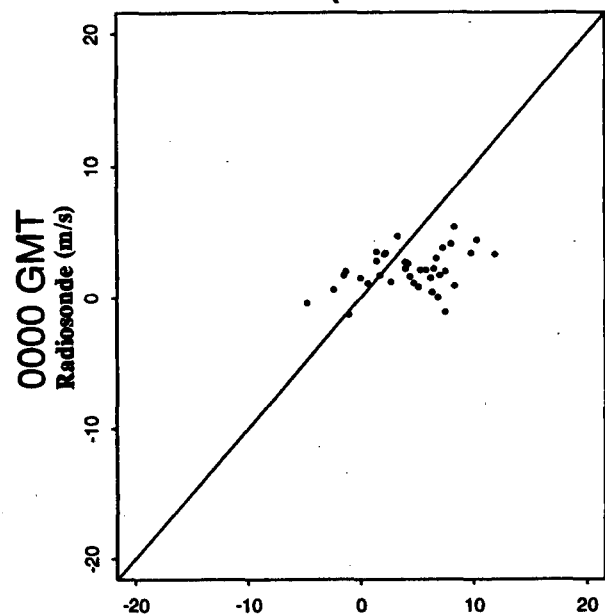


Radar Wind Profiler (m/s)

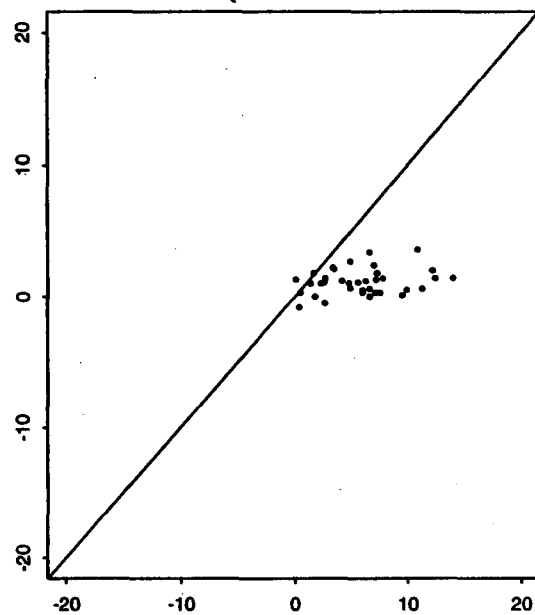


Radar Wind Profiler (m/s)

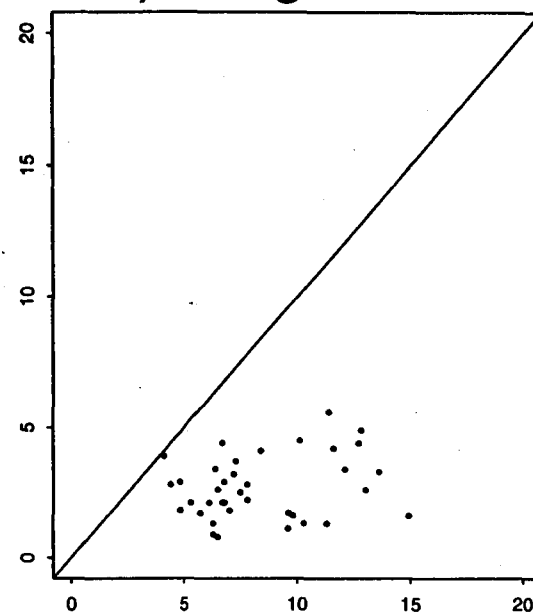
EDWR (Radiosonde) vs BAR (Radar Wind Profiler), Height=1000M



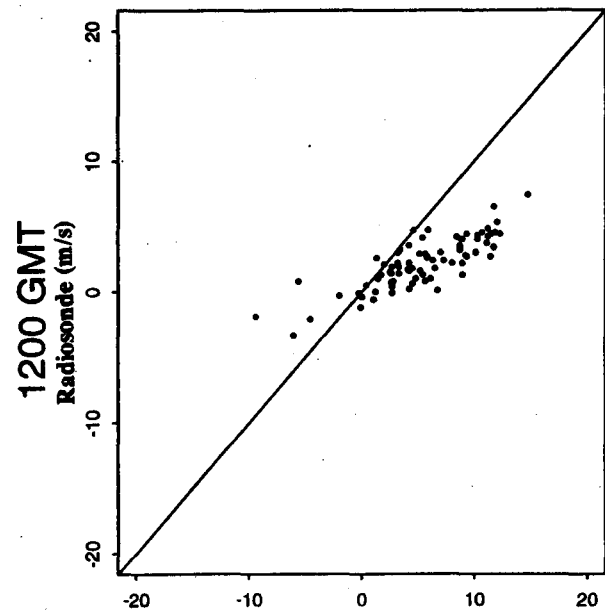
U-Component (m/s)



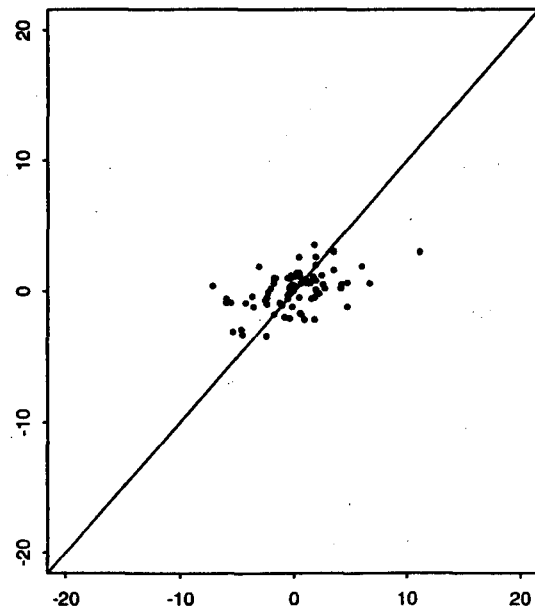
V-Component (m/s)



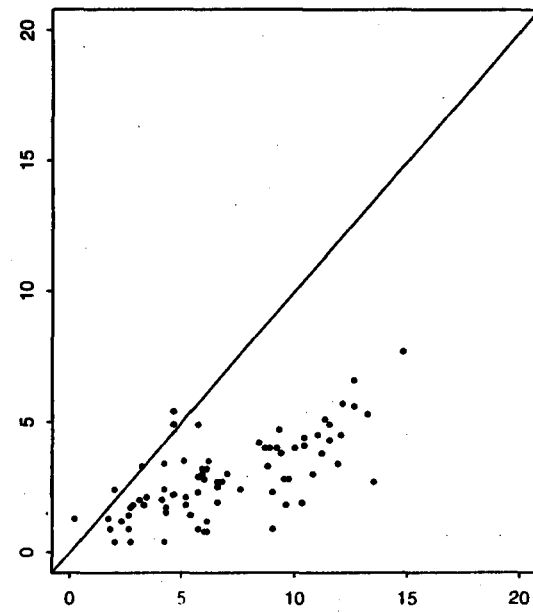
Wind Speed (m/s)



Radar Wind Profiler (m/s)

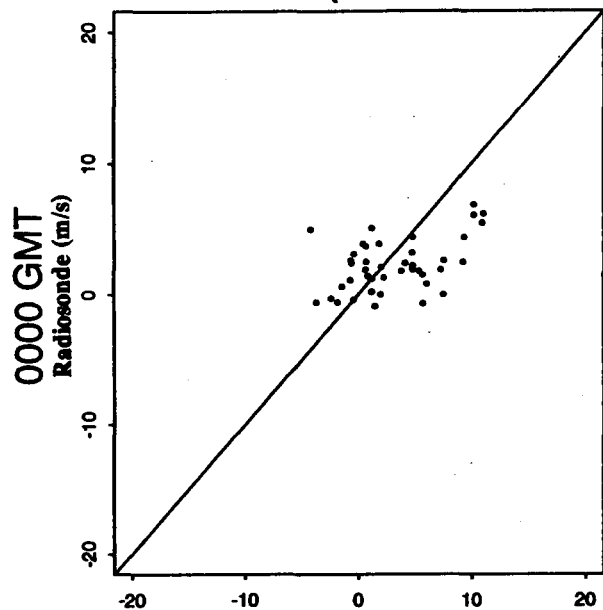


Radar Wind Profiler (m/s)

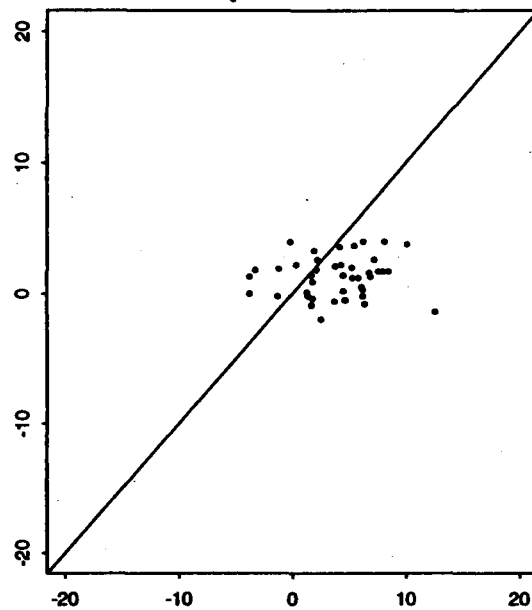


Radar Wind Profiler (m/s)

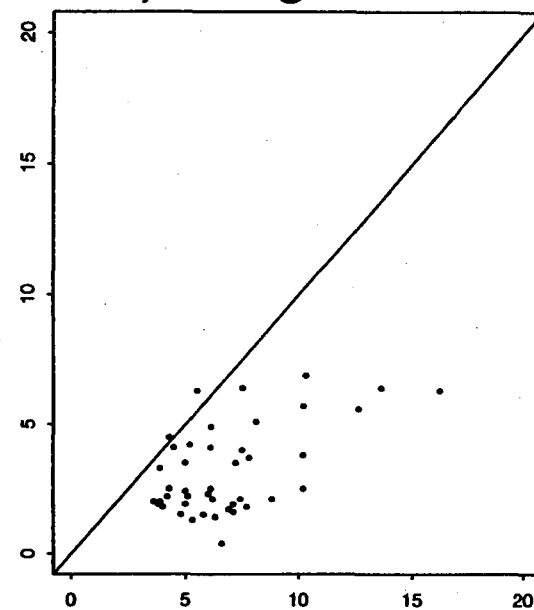
EDWR (Radiosonde) vs BAR (Radar Wind Profiler), Height=2000M



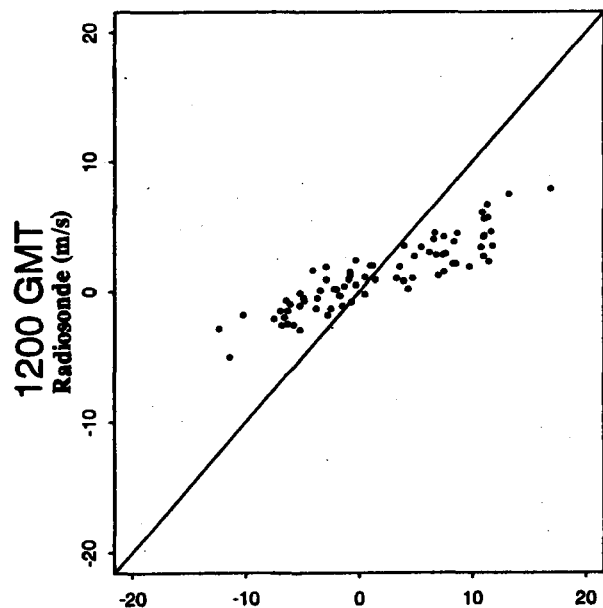
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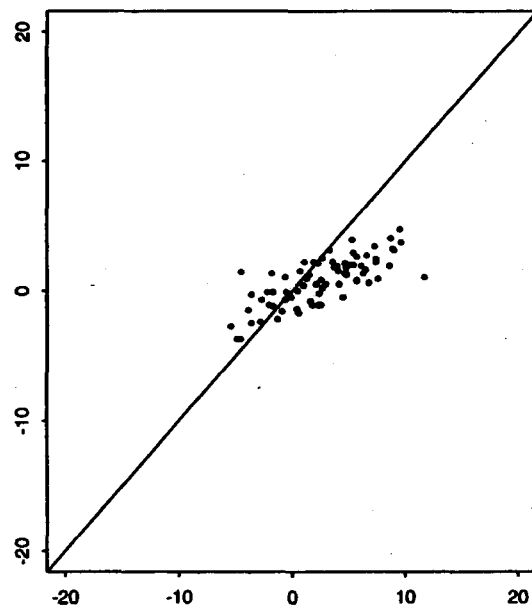
V-Component (m/s)



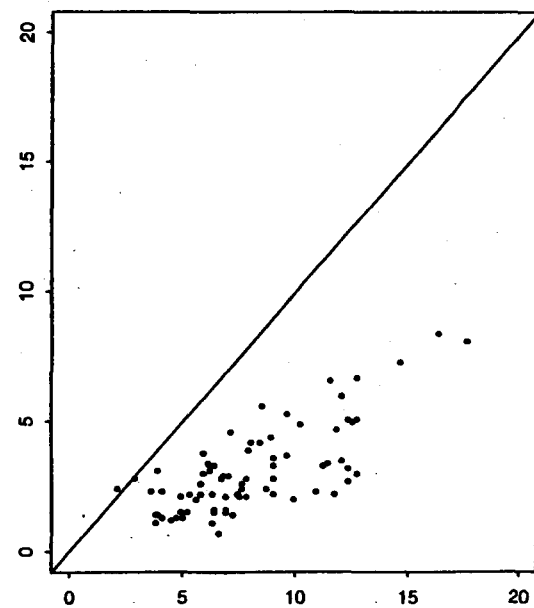
Wind Speed (m/s)



Radar Wind Profiler (m/s)



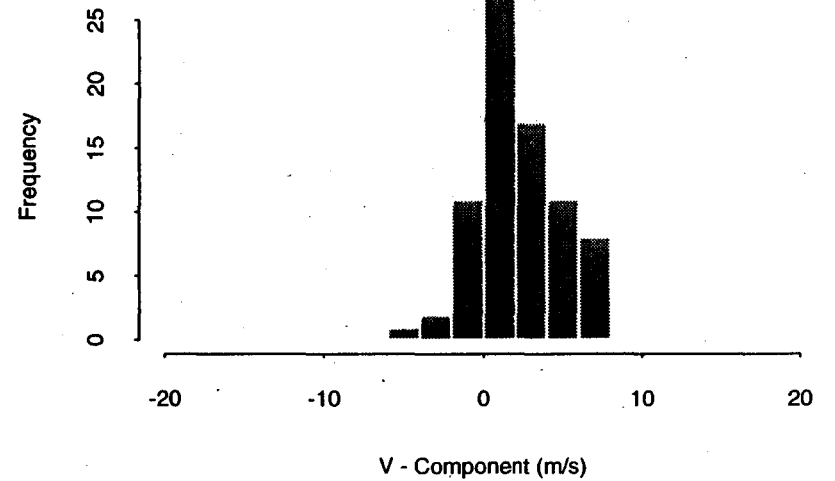
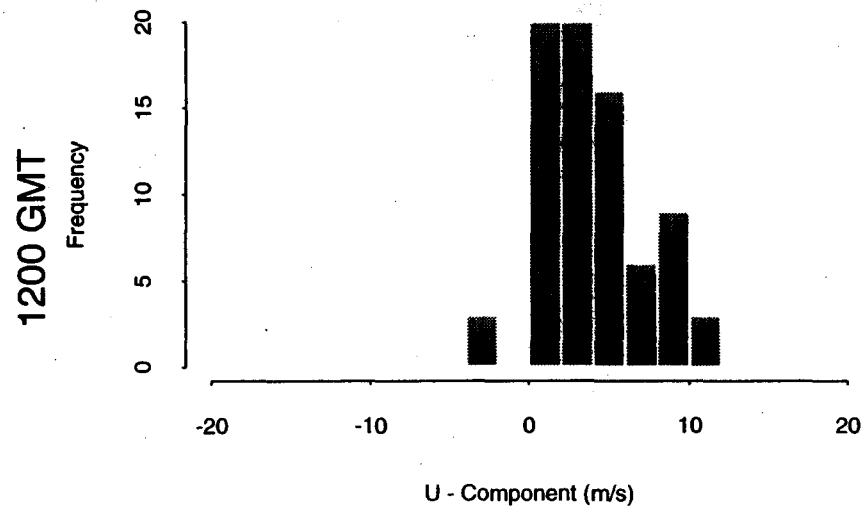
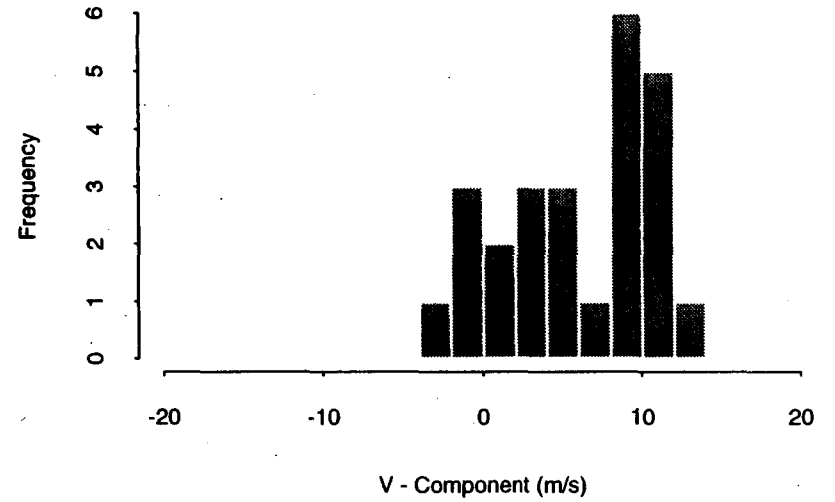
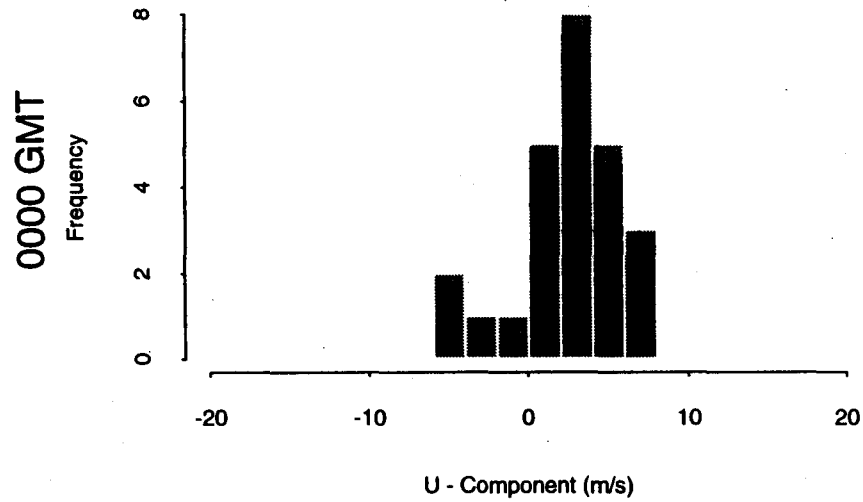
Radar Wind Profiler (m/s)



Radar Wind Profiler (m/s)

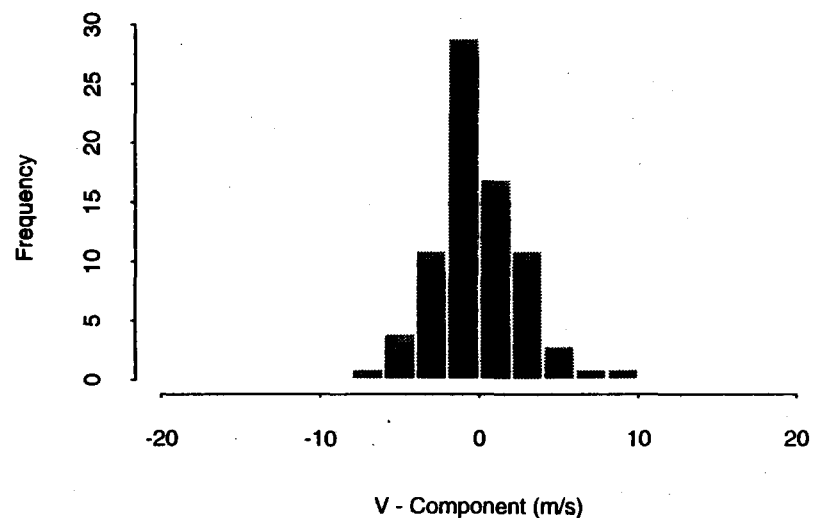
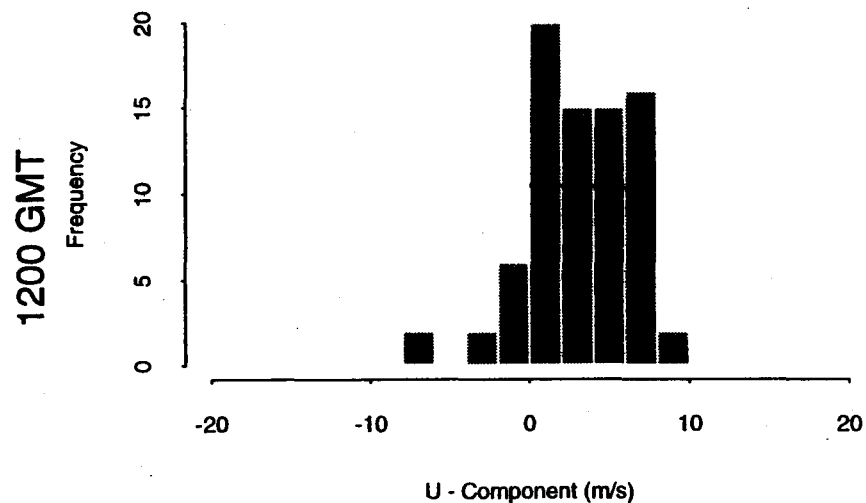
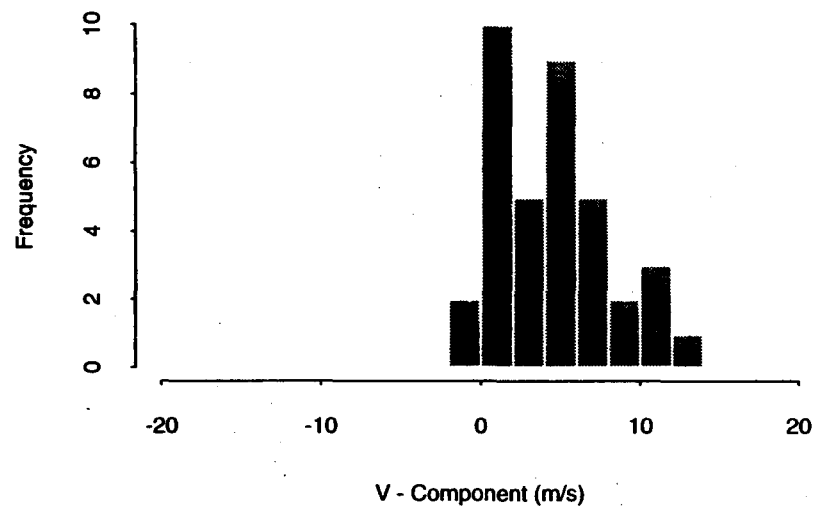
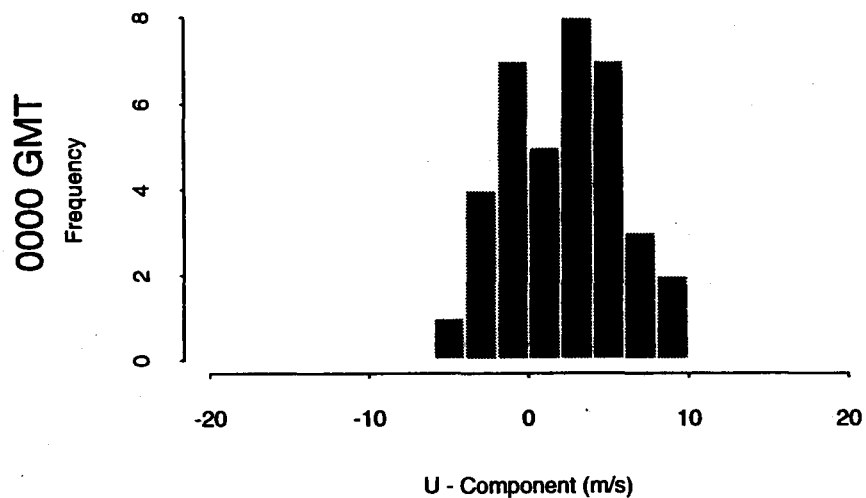
Frequency Distribution of Differences

BAR (Radar Wind Profiler) - EDWR (Radiosonde), 300M



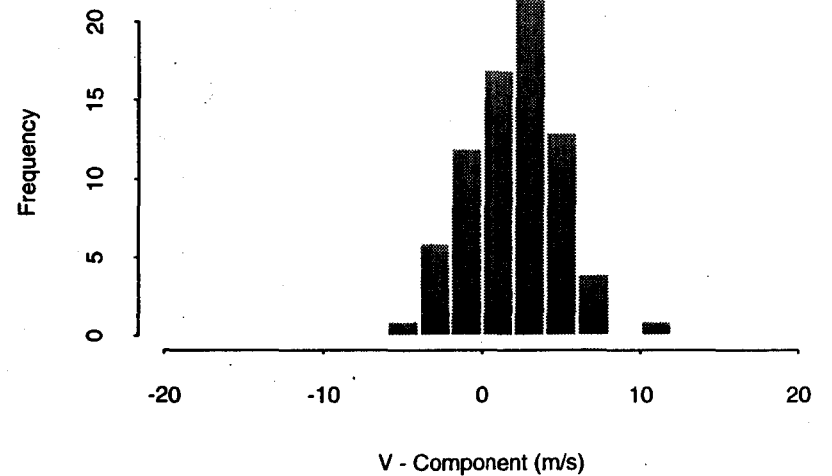
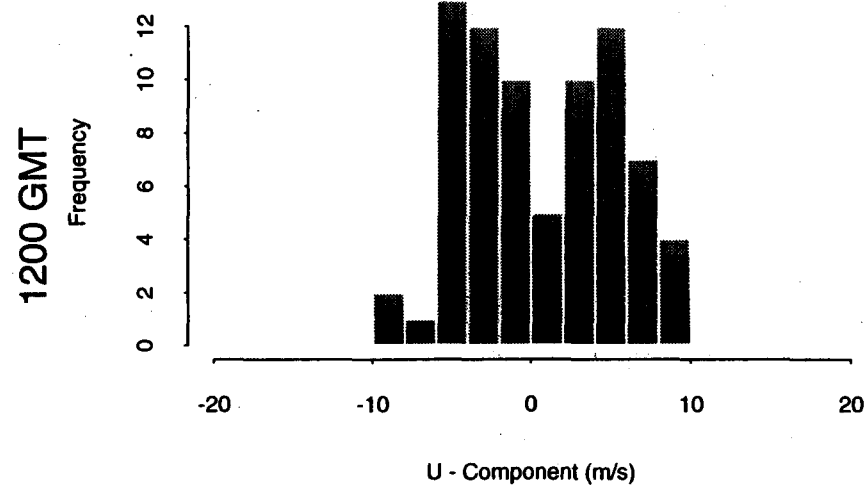
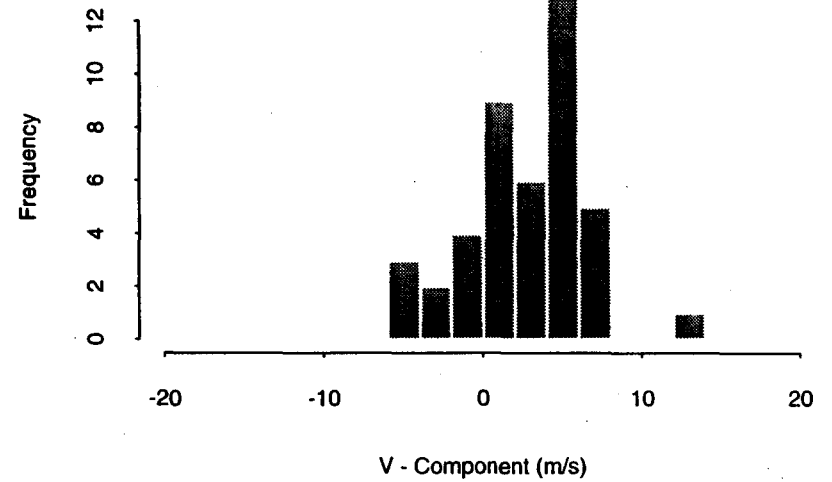
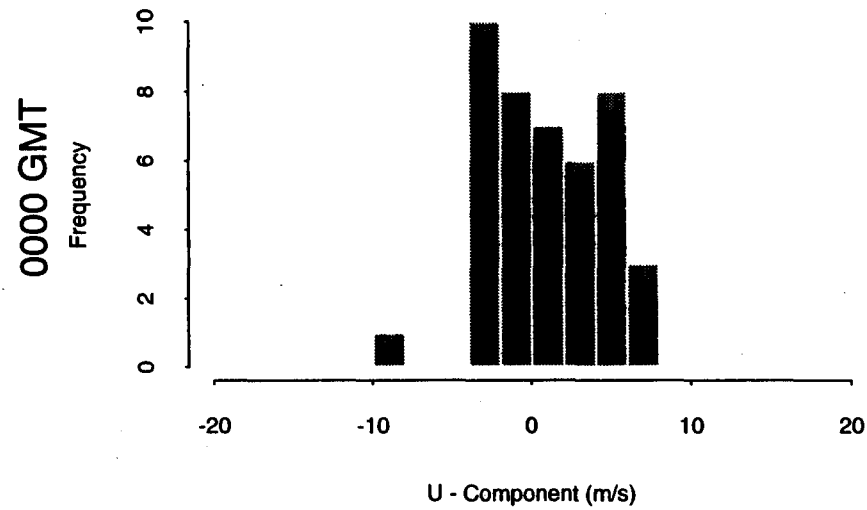
Frequency Distribution of Differences

BAR (Radar Wind Profiler) - EDWR (Radiosonde), 1000M



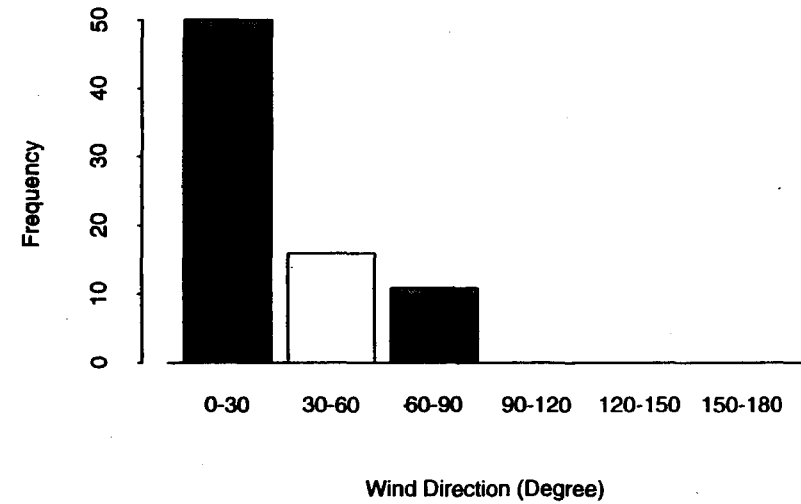
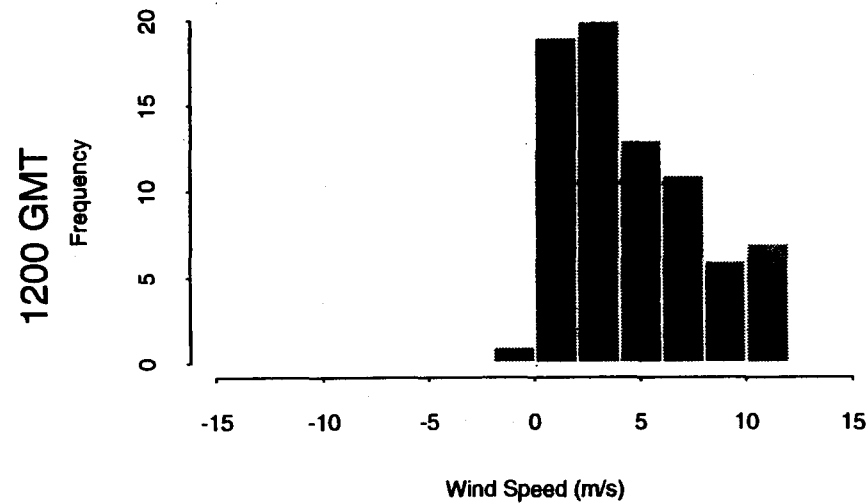
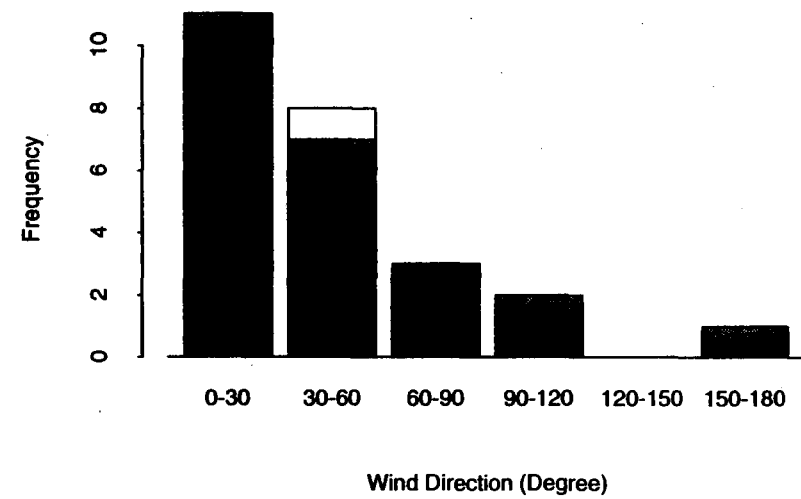
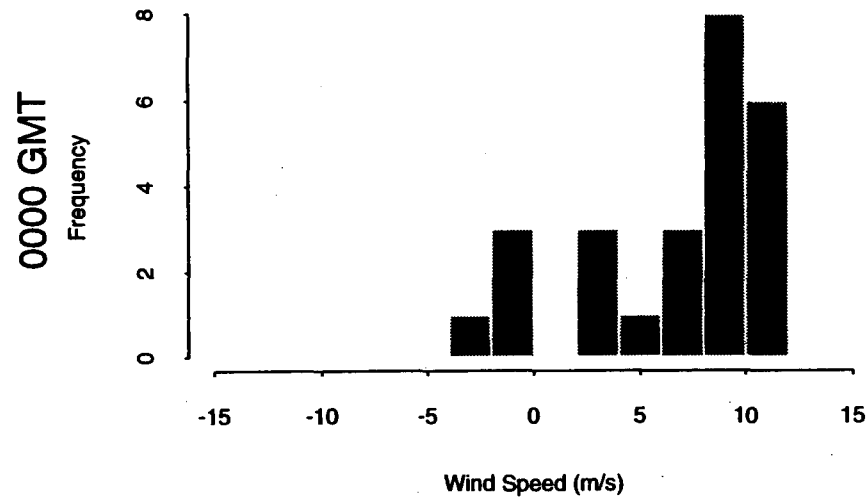
Frequency Distribution of Differences

BAR (Radar Wind Profiler) - EDWR (Radiosonde), 2000M



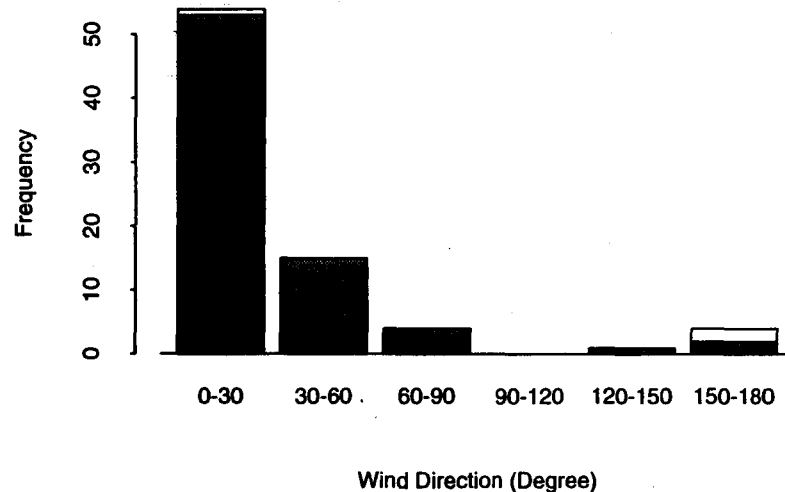
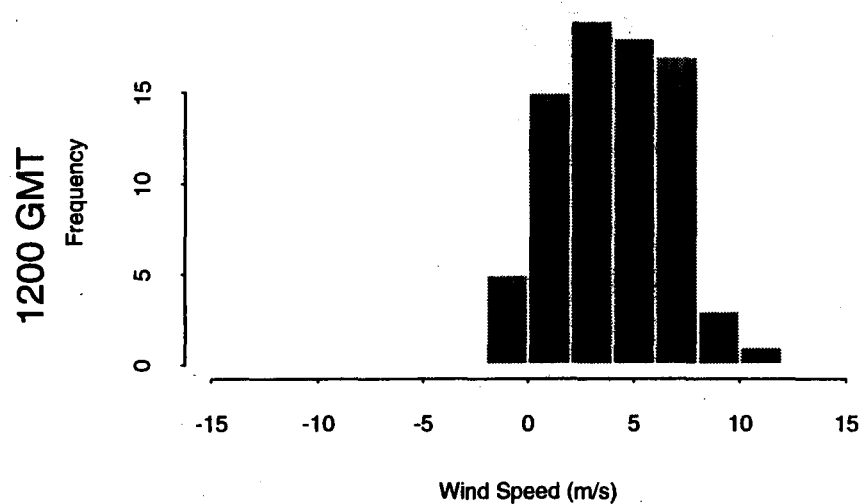
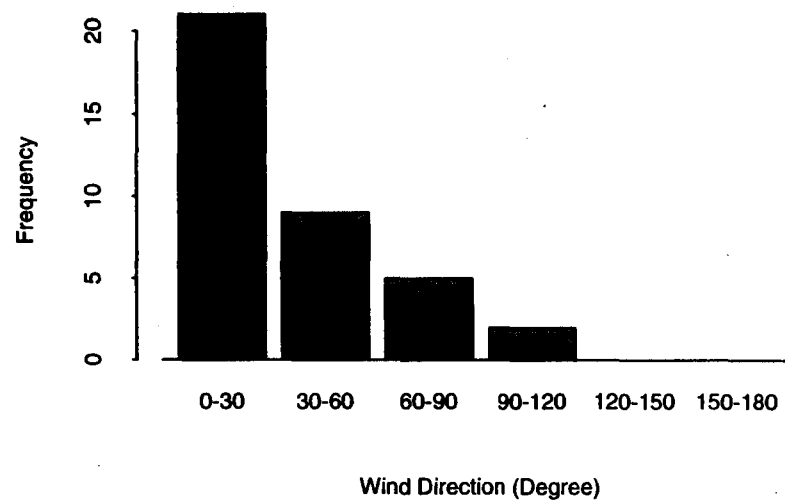
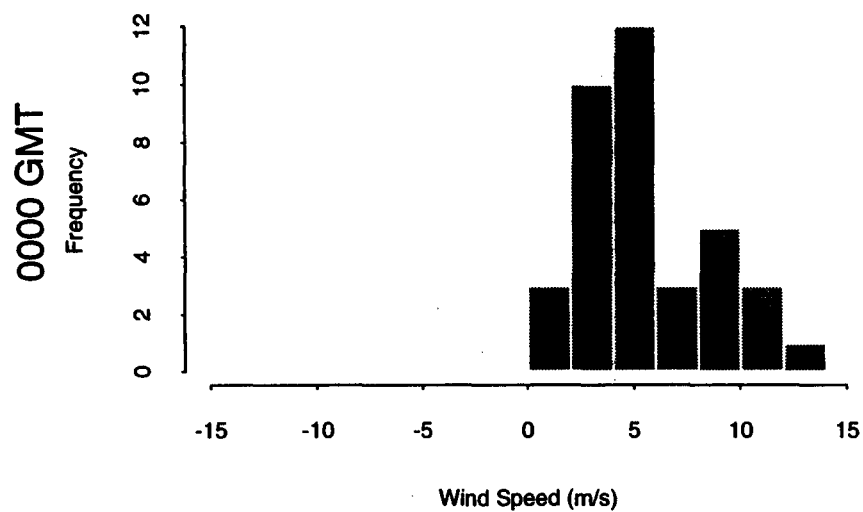
Frequency Distribution of Differences

BAR (Radar Wind Profiler) - EDWR (Radiosonde), 300M



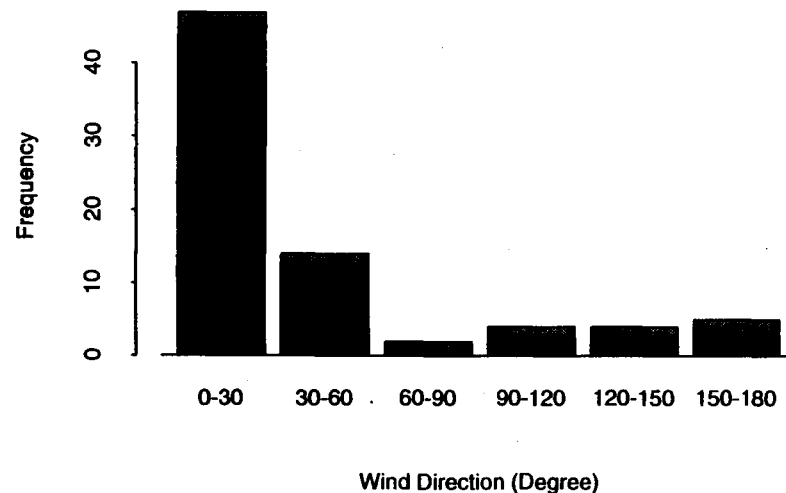
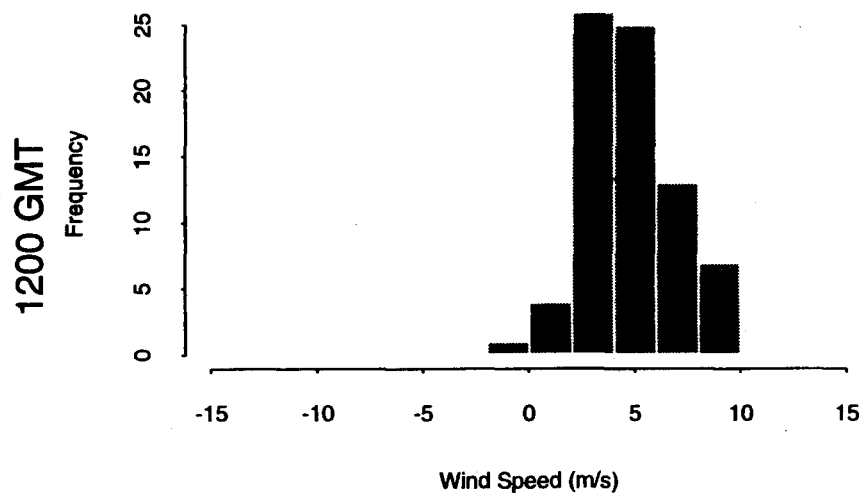
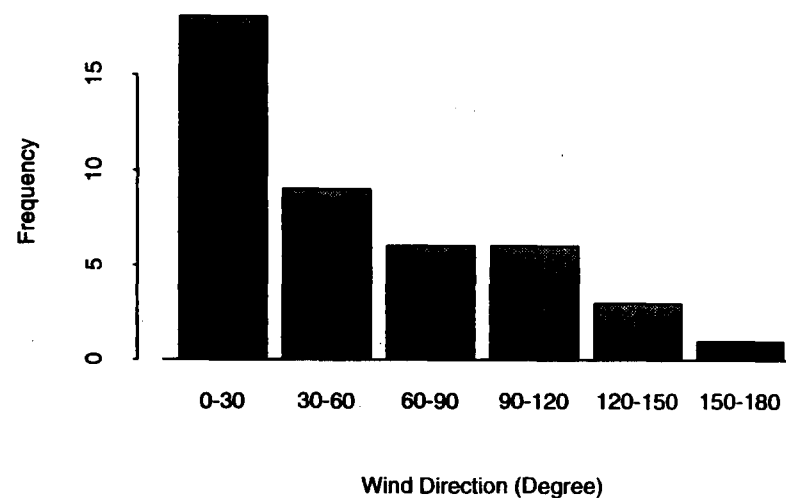
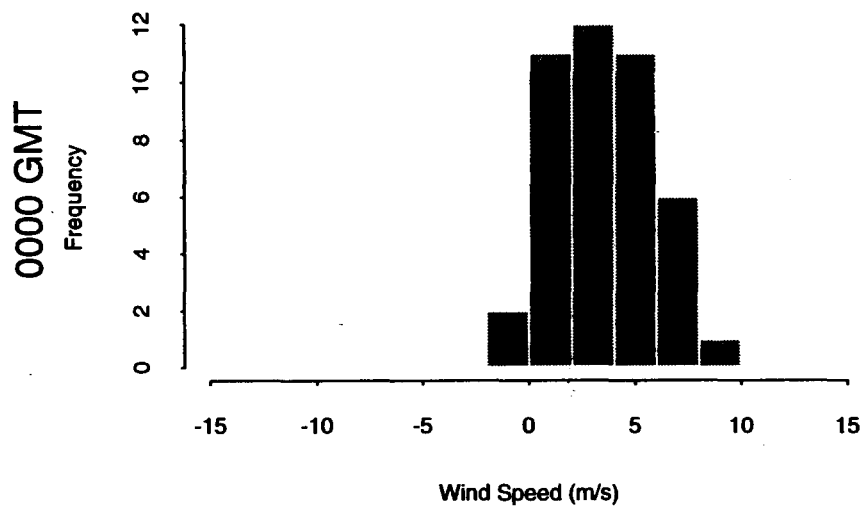
Frequency Distribution of Differences

BAR (Radar Wind Profiler) - EDWR (Radiosonde), 1000M

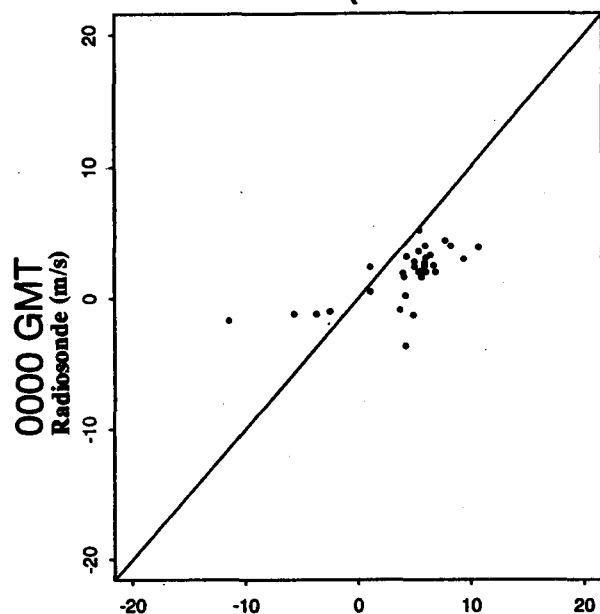


Frequency Distribution of Differences

BAR (Radar Wind Profiler) - EDWR (Radiosonde), 2000M

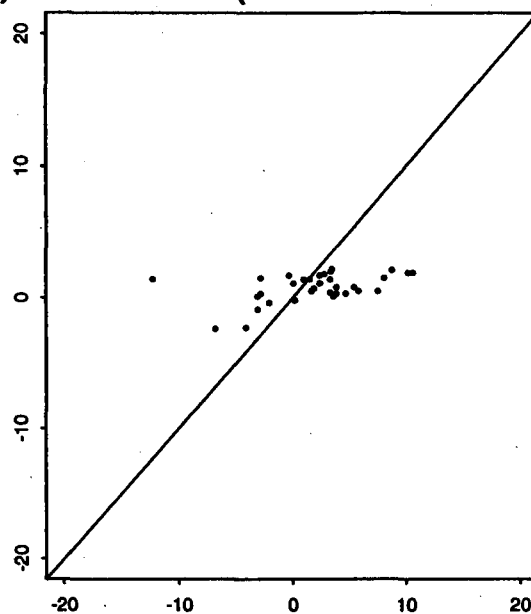


EDWR (Radiosonde) vs PAL (Radar Wind Profiler), Height=300M



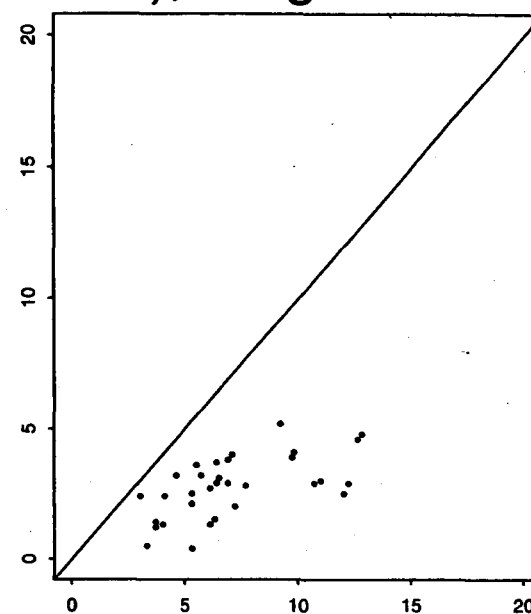
Radar Wind Profiler (m/s)

U-Component (m/s)



Radar Wind Profiler (m/s)

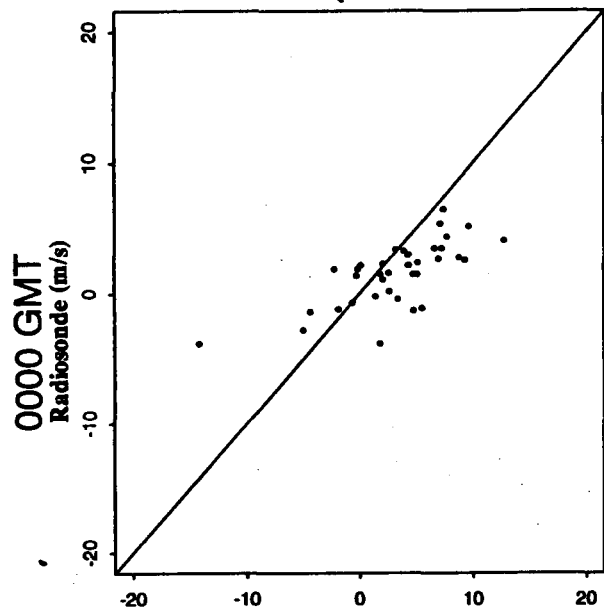
V-Component (m/s)



Radar Wind Profiler (m/s)

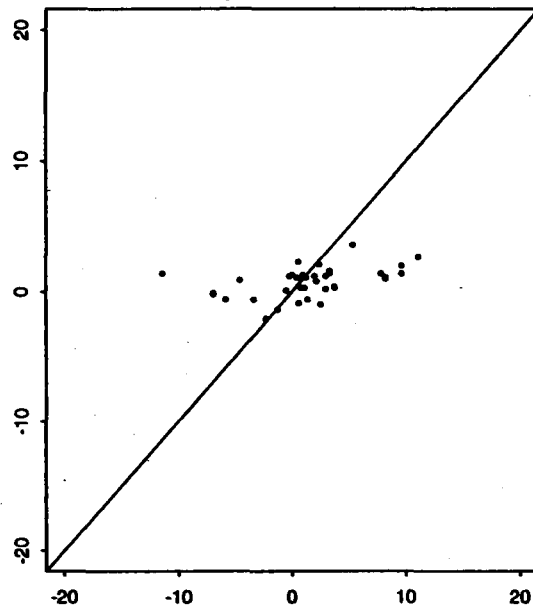
Wind Speed (m/s)

EDWR (Radiosonde) vs PAL (Radar Wind Profiler), Height=1000M



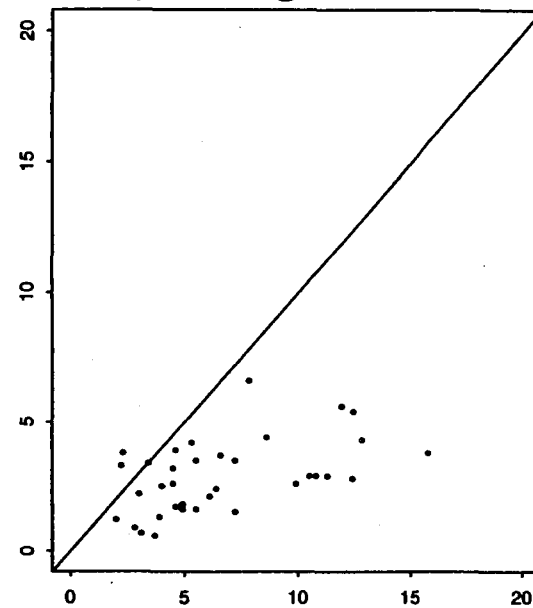
Radar Wind Profiler (m/s)

U-Component (m/s)



Radar Wind Profiler (m/s)

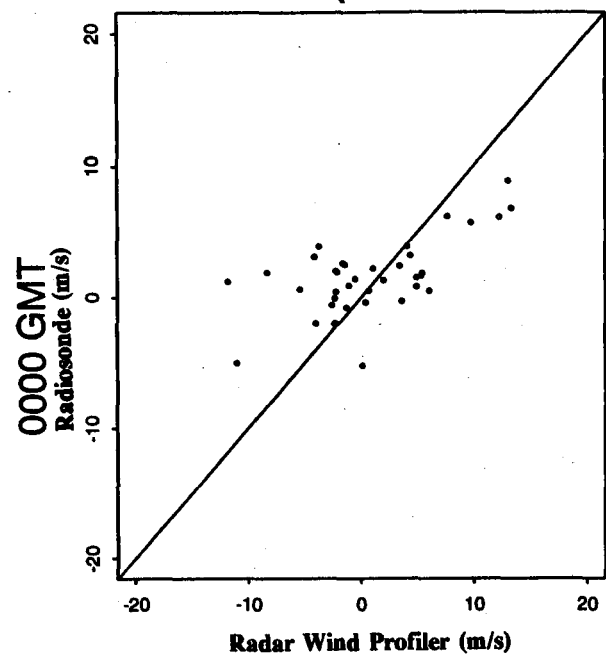
V-Component (m/s)



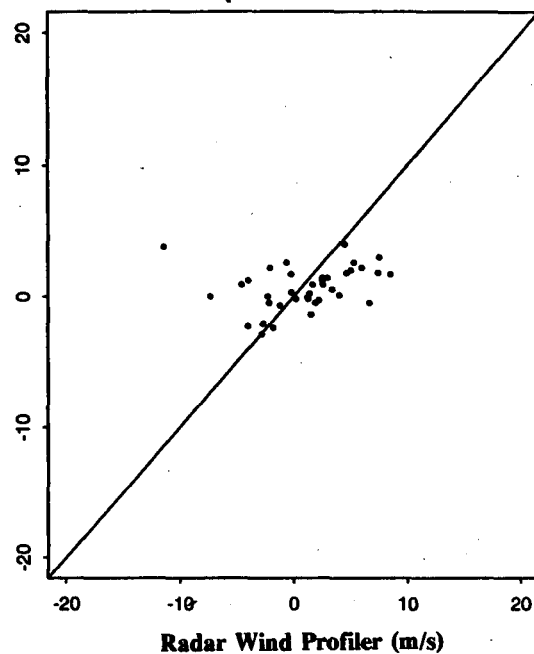
Radar Wind Profiler (m/s)

Wind Speed (m/s)

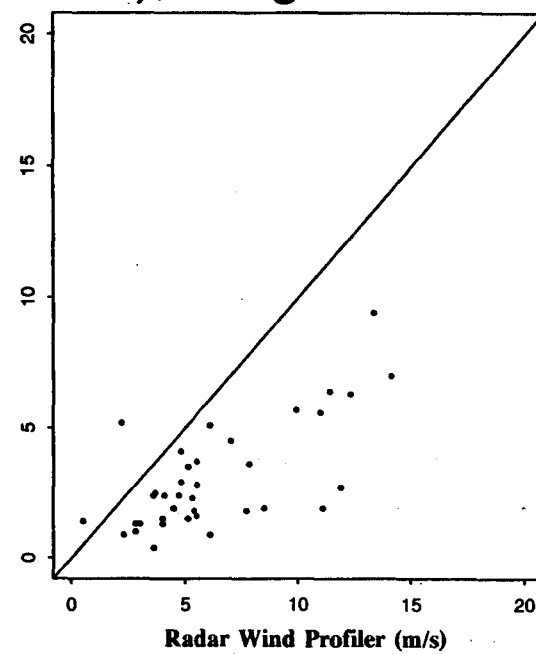
EDWR (Radiosonde) vs PAL (Radar Wind Profiler), Height=2000M



U-Component (m/s)



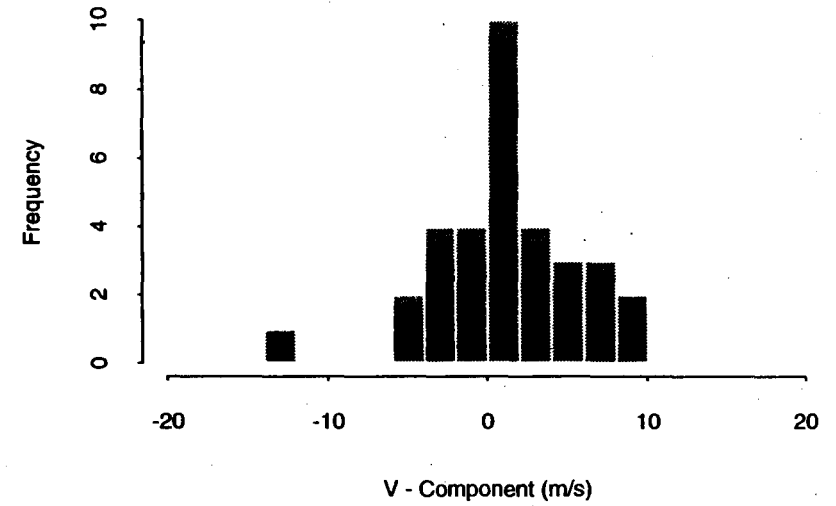
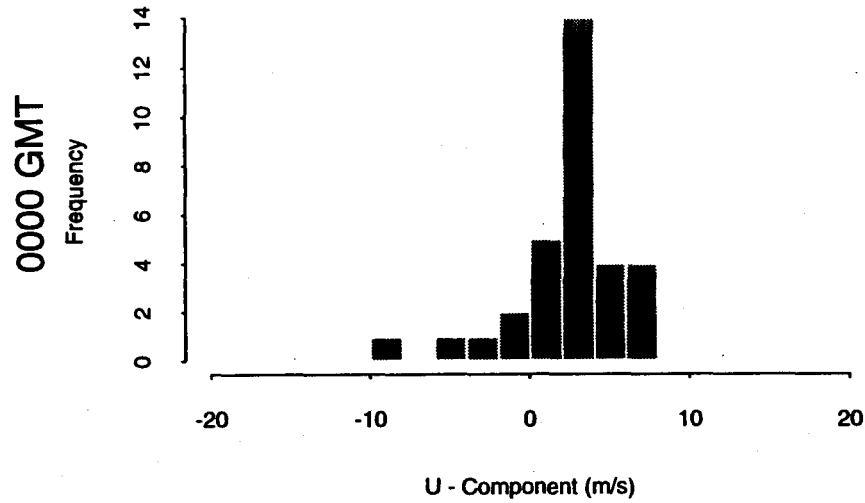
V-Component (m/s)



Wind Speed (m/s)

Frequency Distribution of Differences

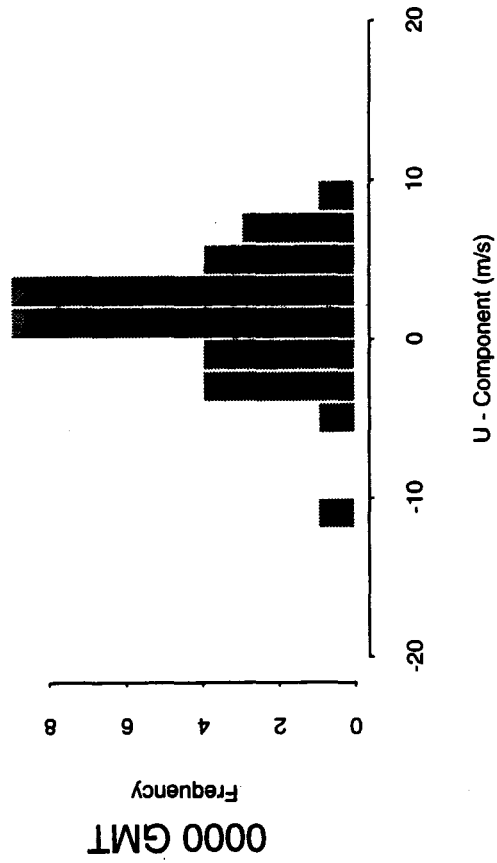
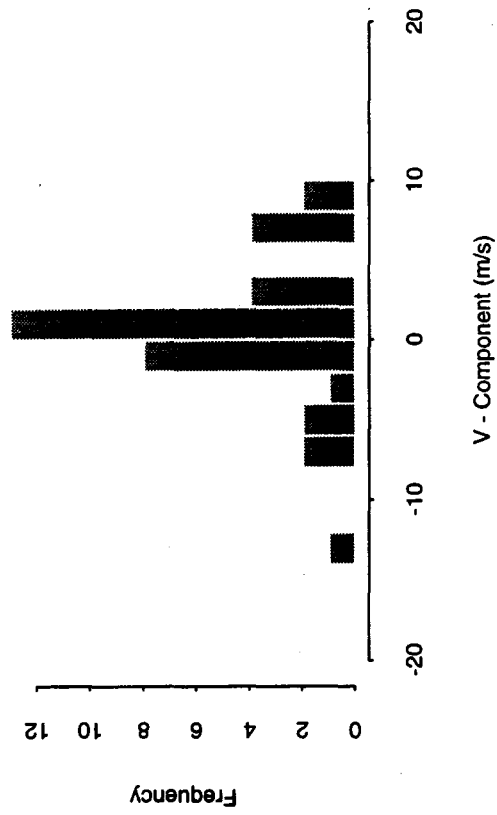
PAL (Radar Wind Profiler) - EDWR (Radiosonde), 300M



1200 GMT

Frequency Distribution of Differences

PAL (Radar Wind Profiler) - EDWR (Radiosonde), 1000M



1200 GMT

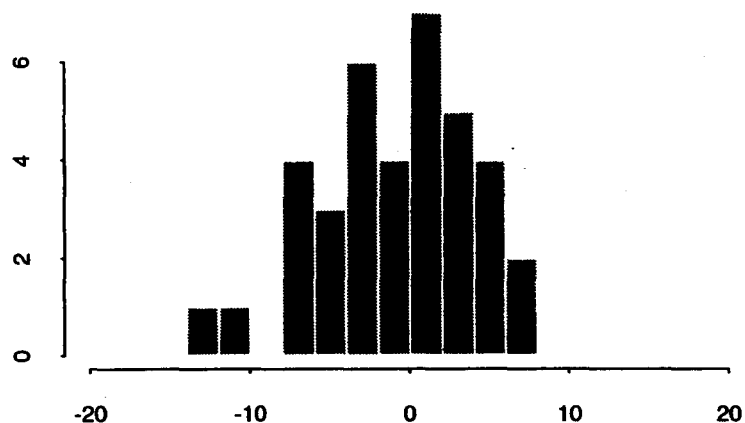
0000 GMT

Frequency Distribution of Differences

PAL (Radar Wind Profiler) - EDWR (Radiosonde), 2000M

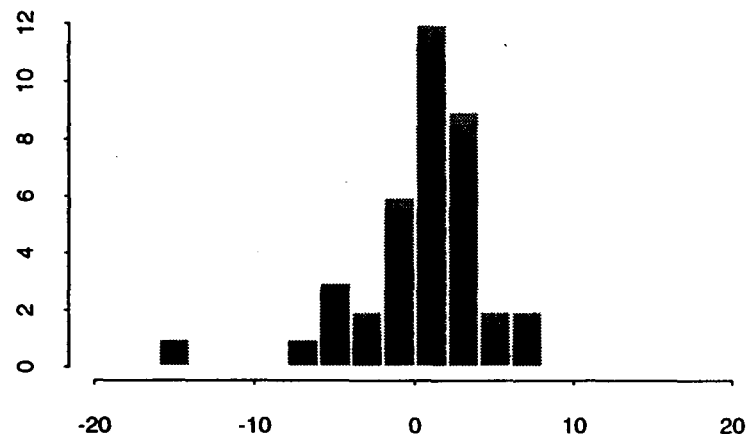
0000 GMT

Frequency



U - Component (m/s)

Frequency

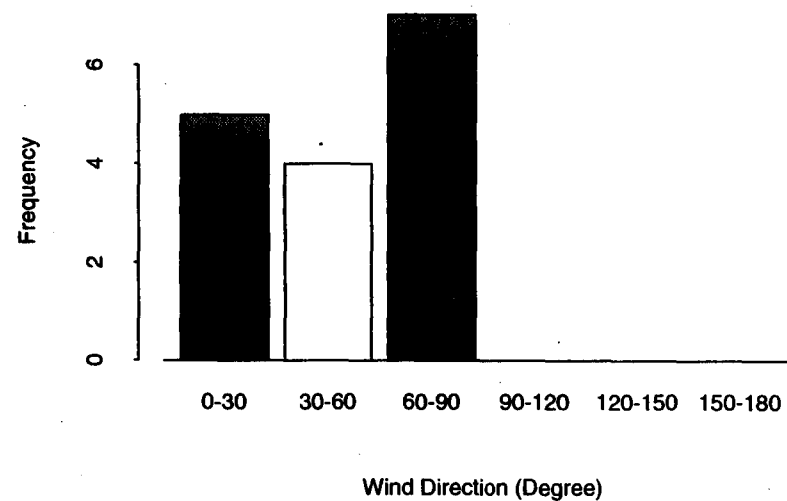
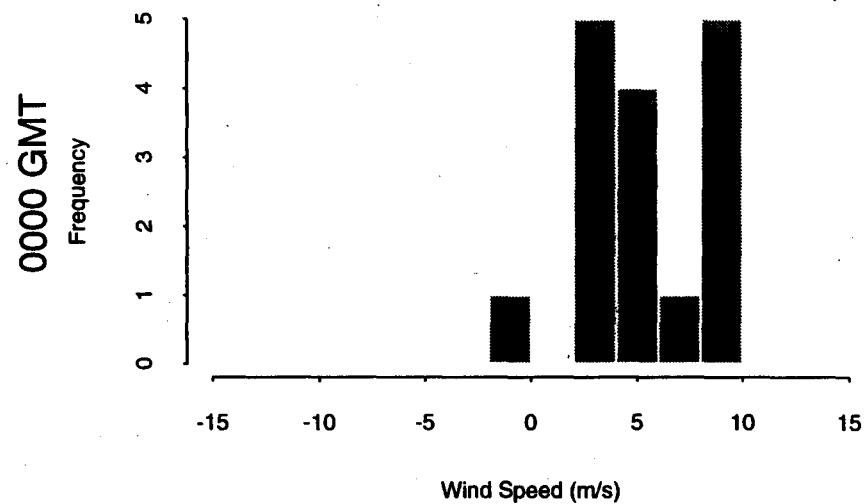


V - Component (m/s)

1200 GMT

Frequency Distribution of Differences

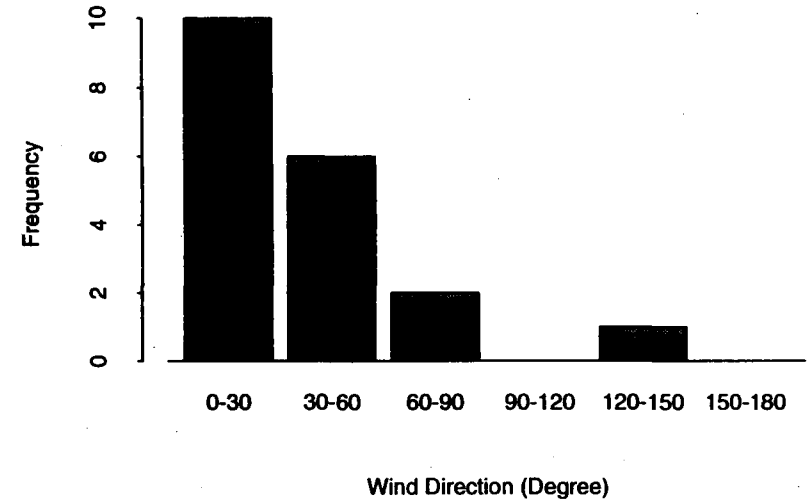
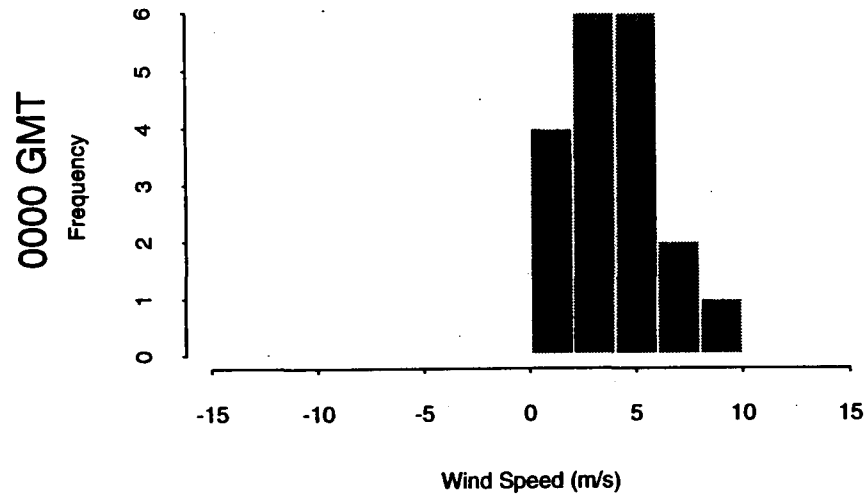
PAL (Radar Wind Profiler) - EDWR (Radiosonde), 300M



1200 GMT

Frequency Distribution of Differences

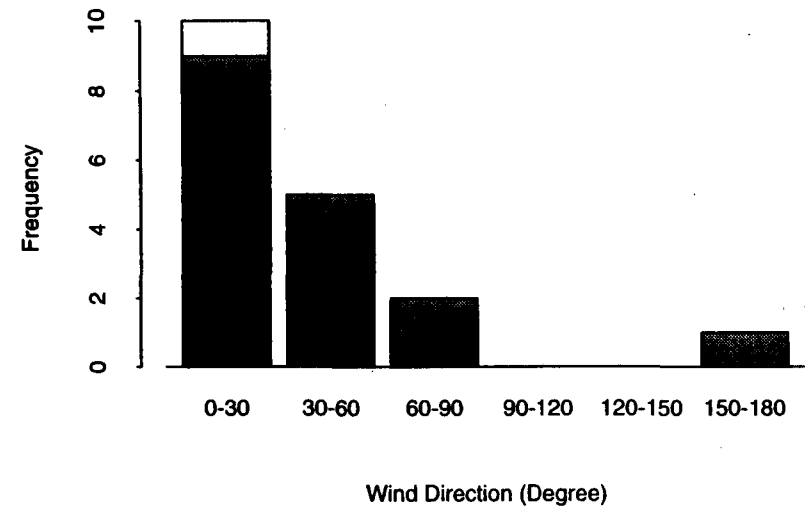
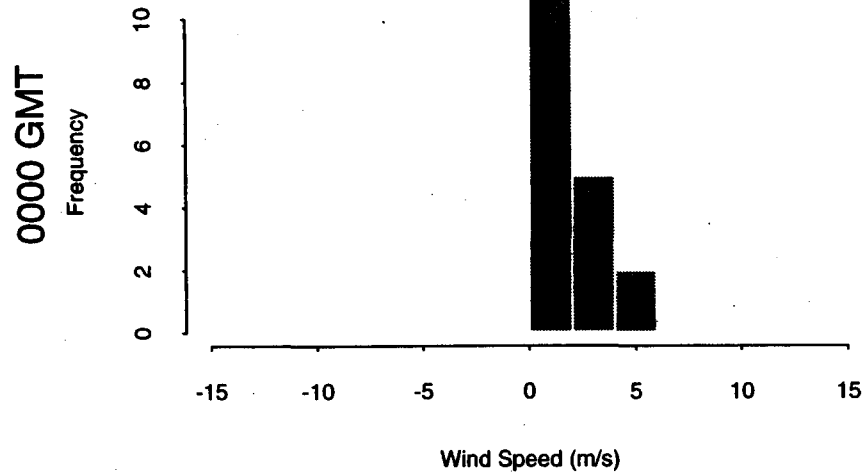
PAL (Radar Wind Profiler) - EDWR (Radiosonde), 1000M



1200 GMT

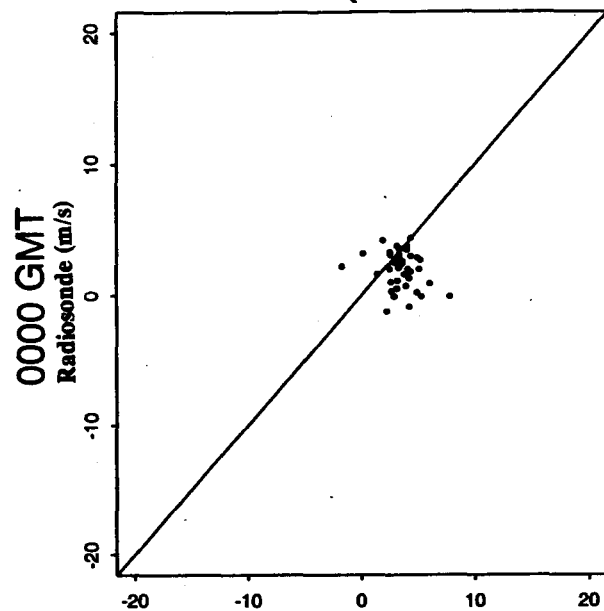
Frequency Distribution of Differences

PAL (Radar Wind Profiler) - EDWR (Radiosonde), 2000M

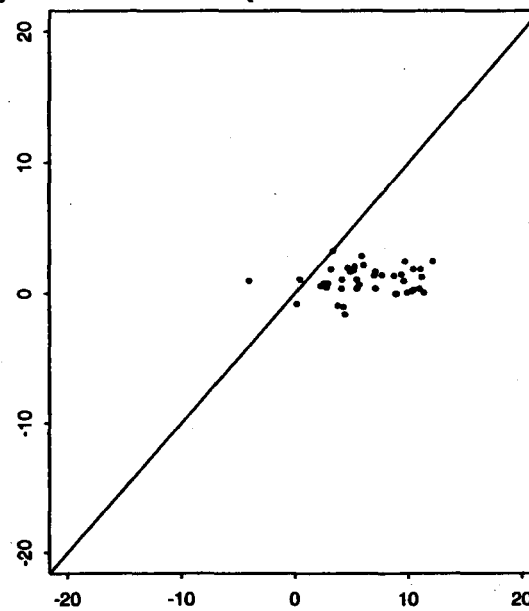


1200 GMT

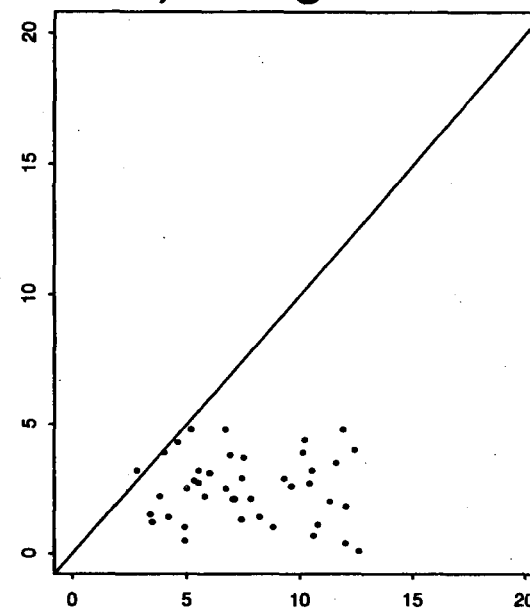
EDWR (Radiosonde) vs HES (Radar Wind Profiler), Height=300M



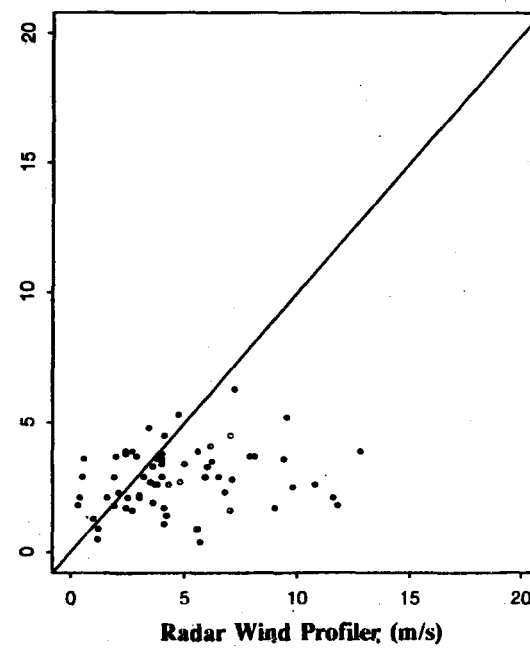
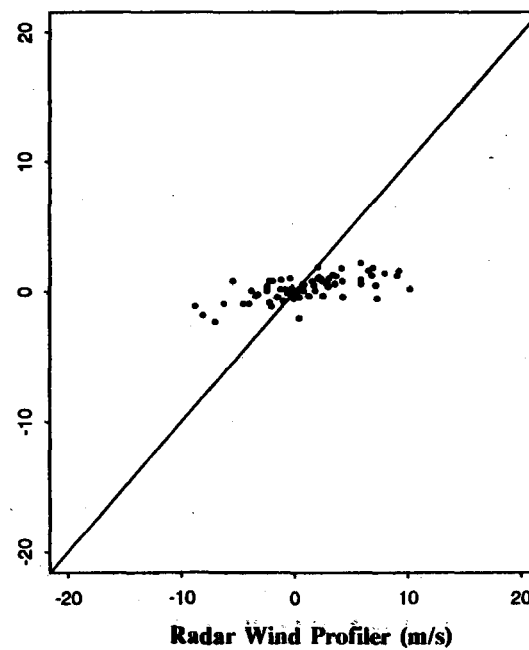
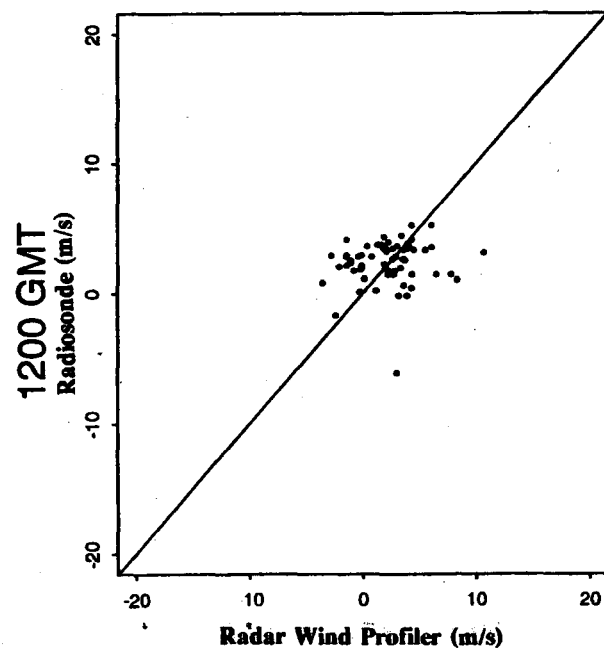
U-Component (m/s)



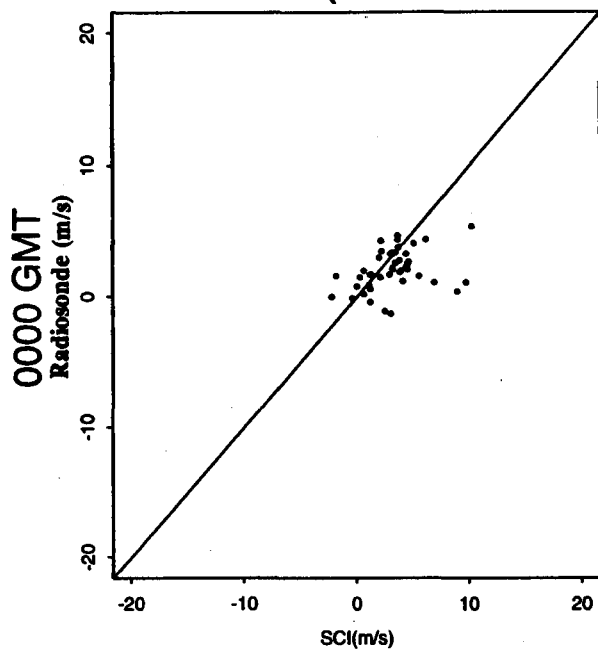
V-Component (m/s)



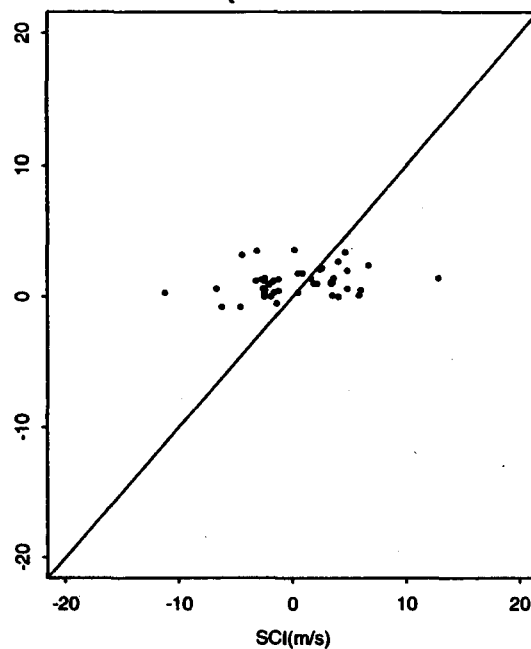
Wind Speed (m/s)



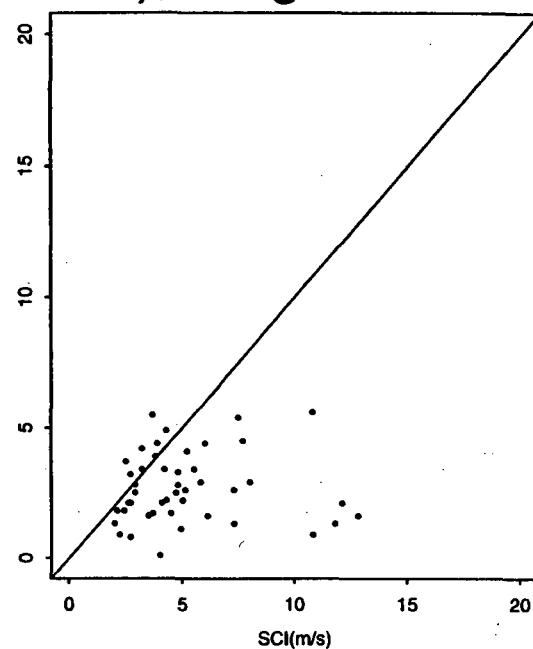
EDWR (Radiosonde) vs HES (Radar Wind Profiler), Height=1000M



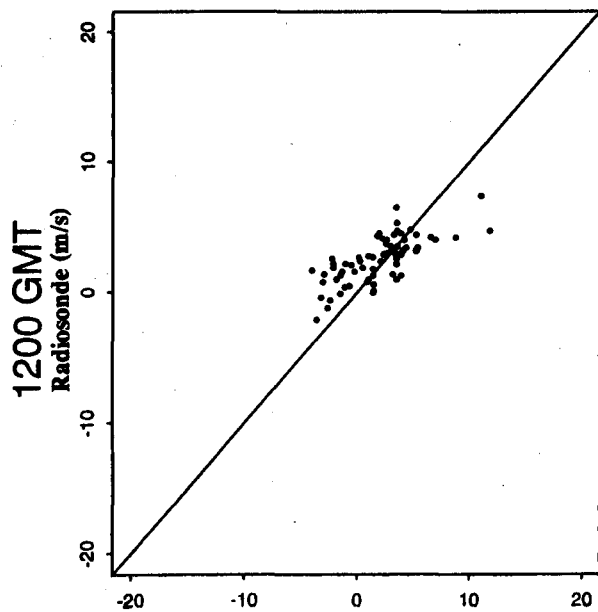
U-Component (m/s)



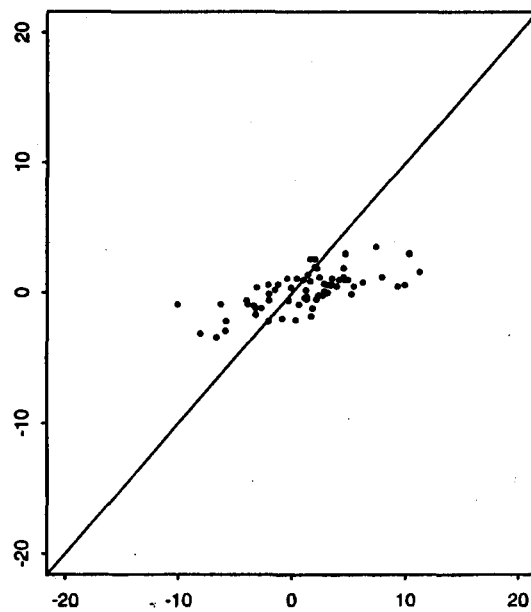
V-Component (m/s)



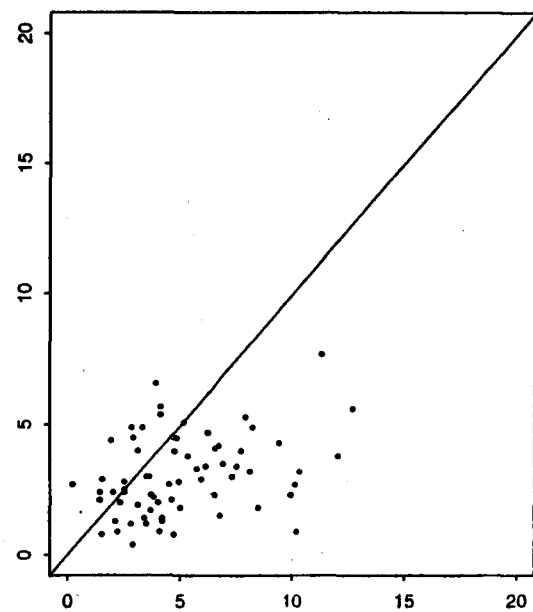
Wind Speed (m/s)



Radar Wind Profiler (m/s)

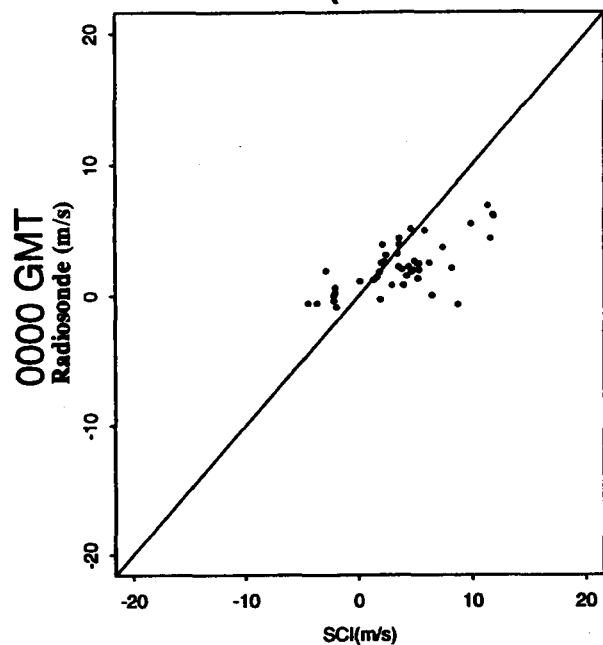


Radar Wind Profiler (m/s)

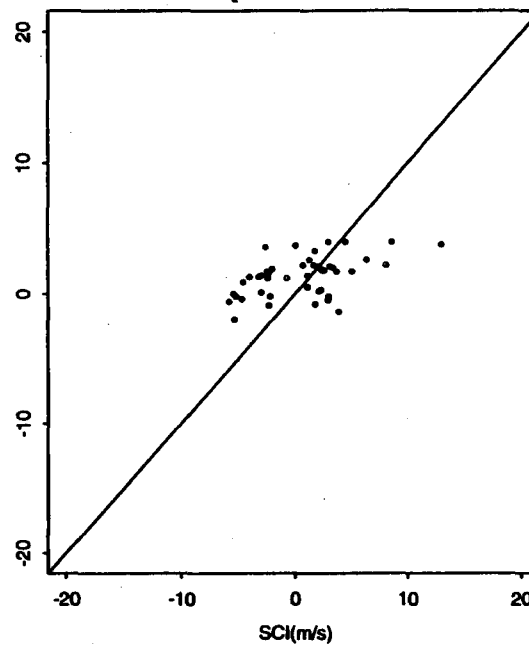


Radar Wind Profiler (m/s)

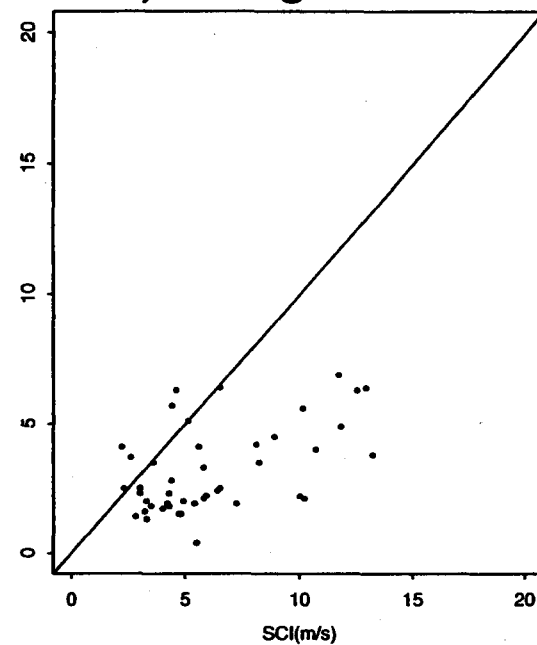
EDWR (Radiosonde) vs HES (Radar Wind Profiler), Height=2000M



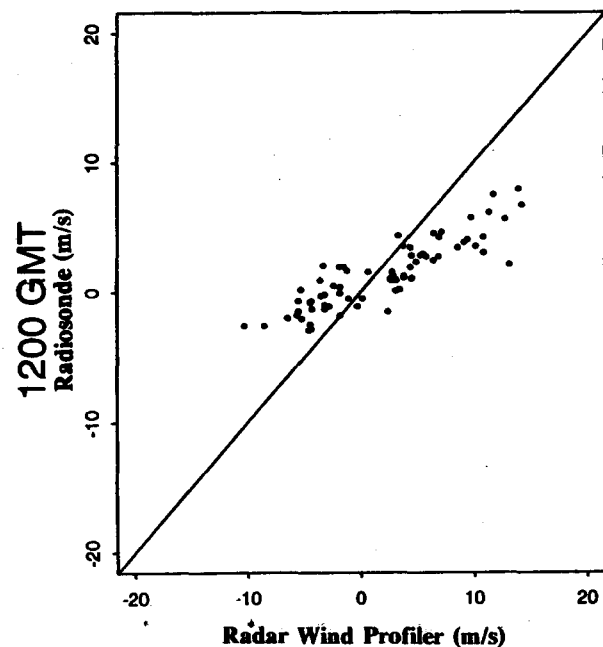
U-Component (m/s)



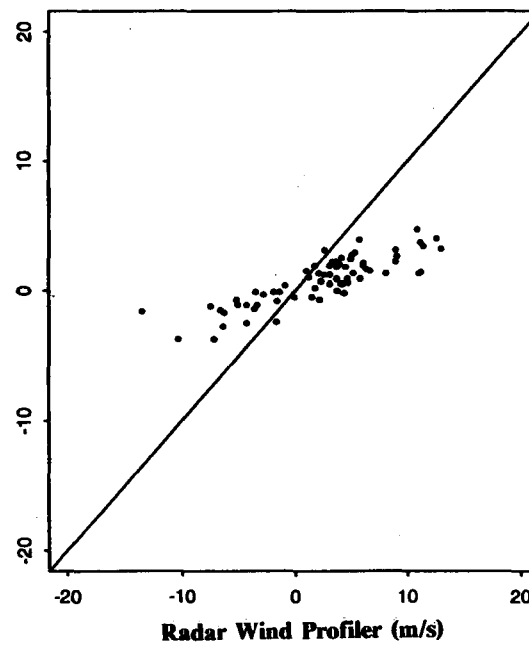
V-Component (m/s)



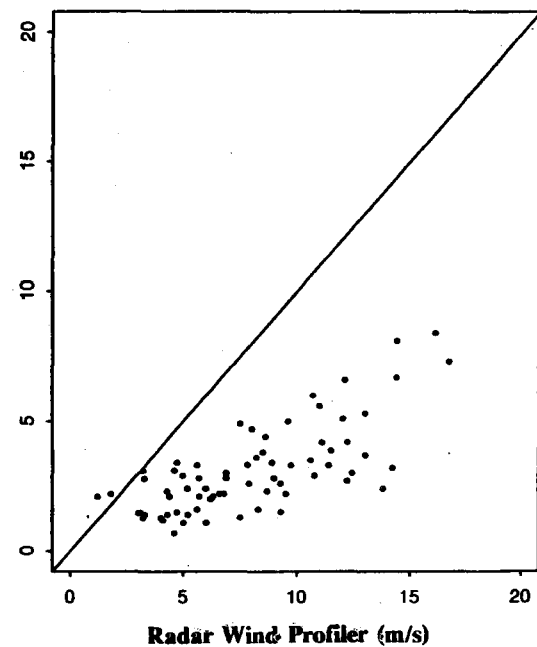
Wind Speed (m/s)



Radar Wind Profiler (m/s)



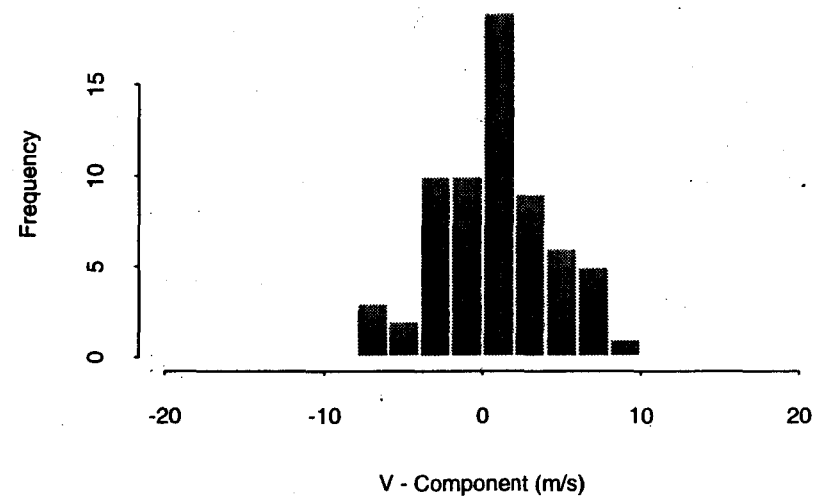
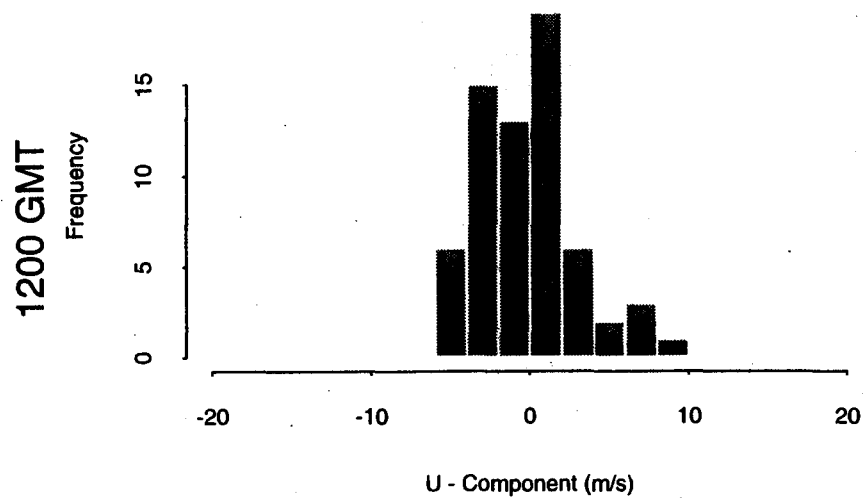
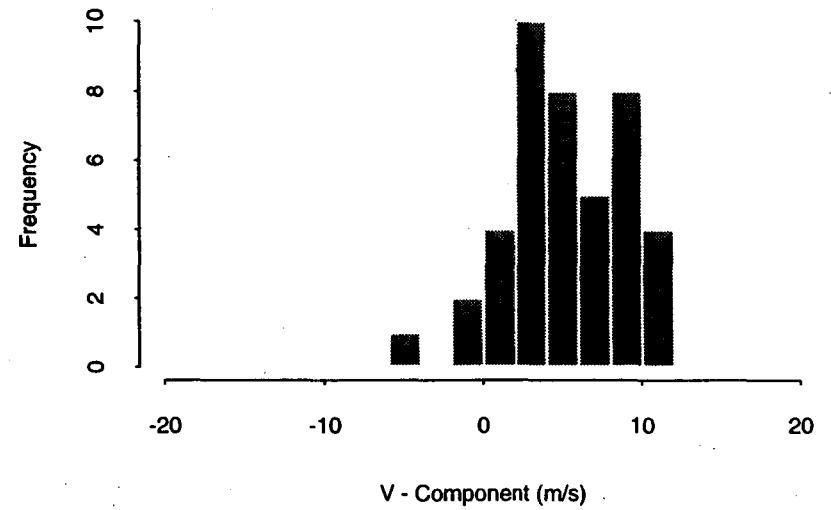
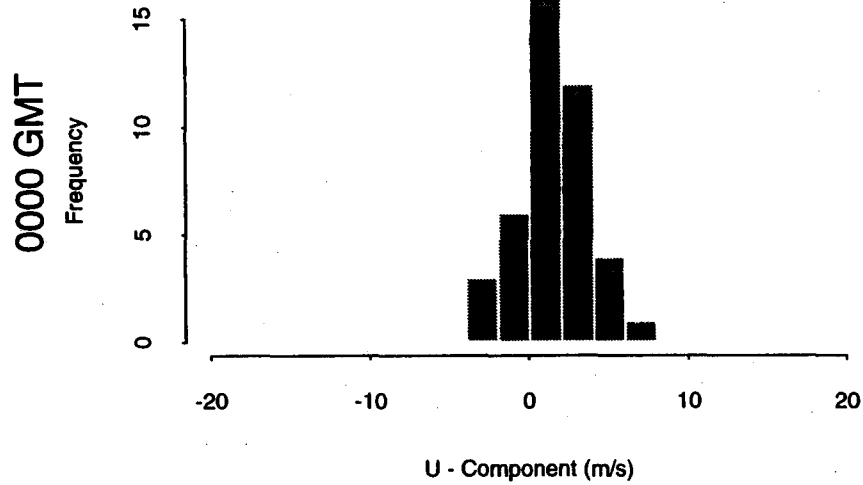
Radar Wind Profiler (m/s)



Radar Wind Profiler (m/s)

Frequency Distribution of Differences

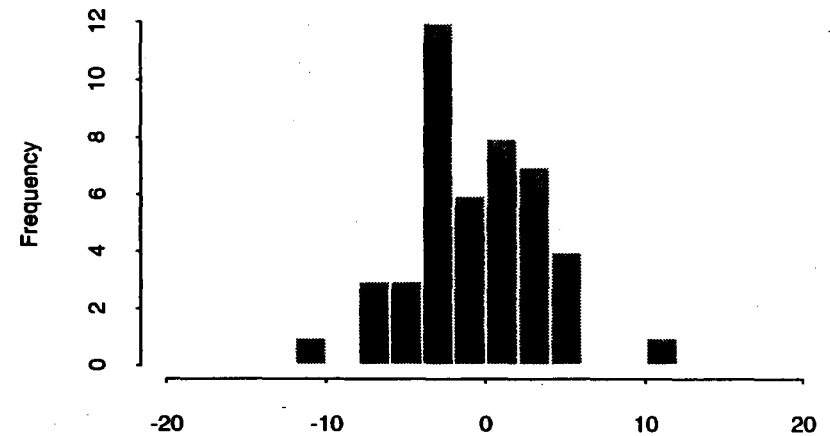
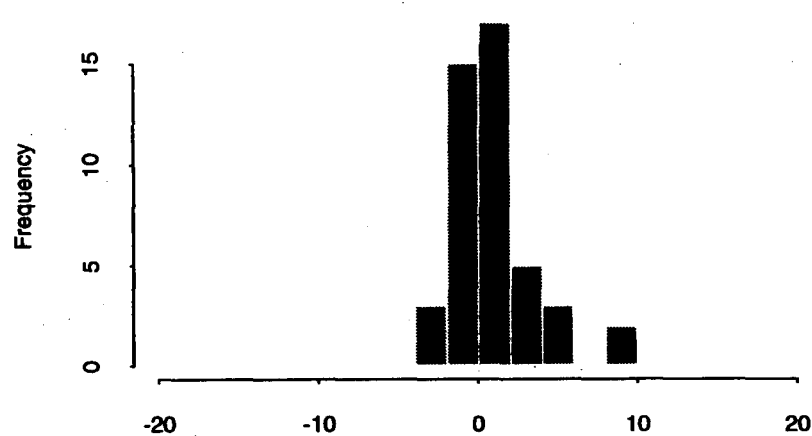
HES (Radar Wind Profiler) - EDWR (Radiosonde), 300M



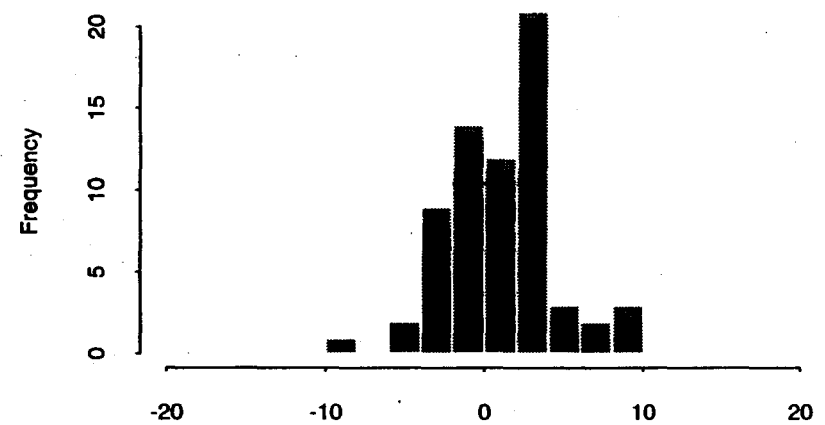
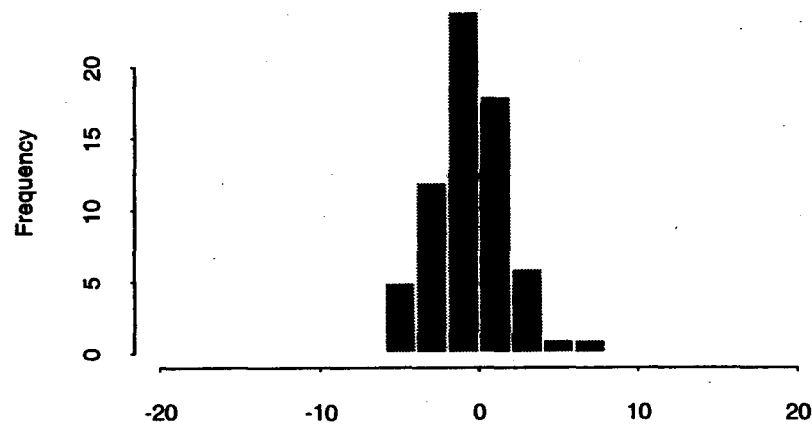
Frequency Distribution of Differences

HES (Radar Wind Profiler) - EDWR (Radiosonde), 1000M

0000 GMT

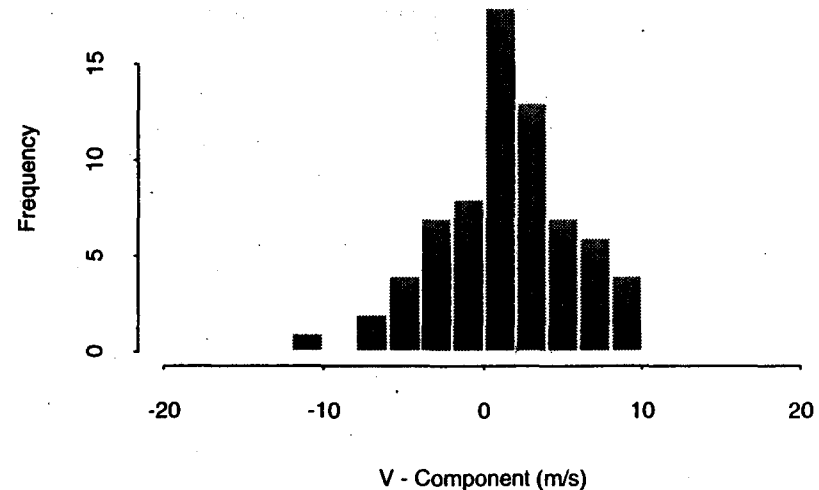
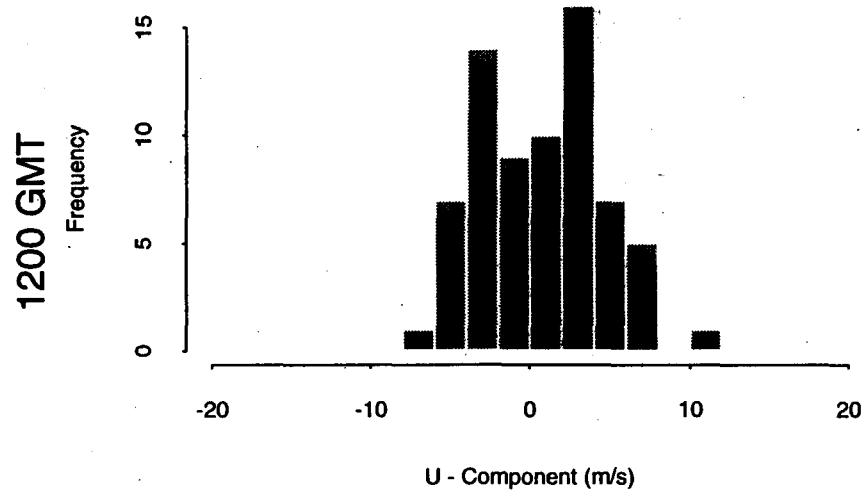
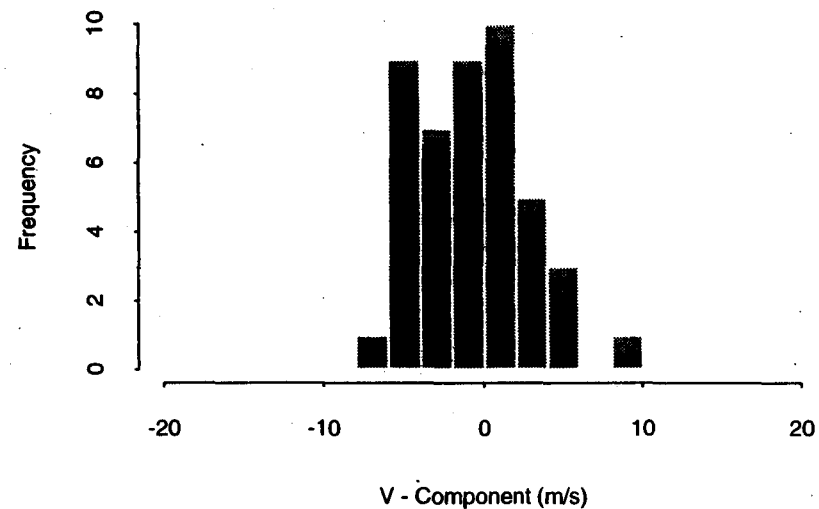
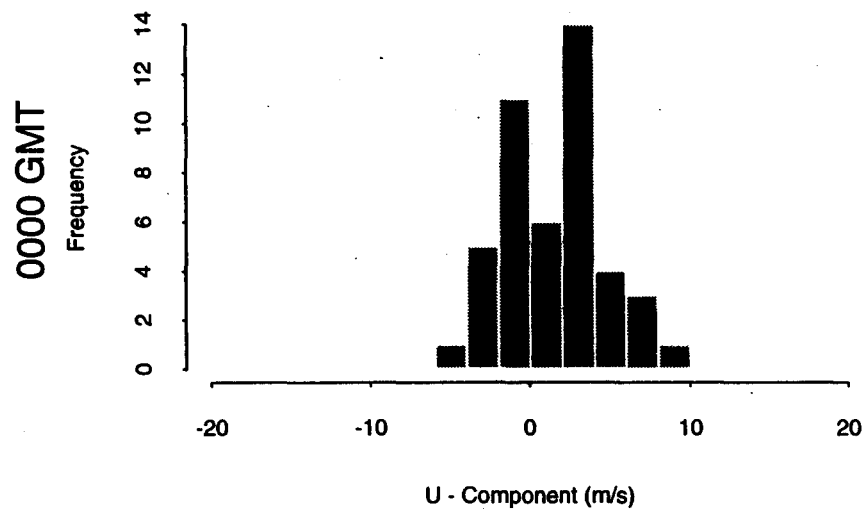


1200 GMT



Frequency Distribution of Differences

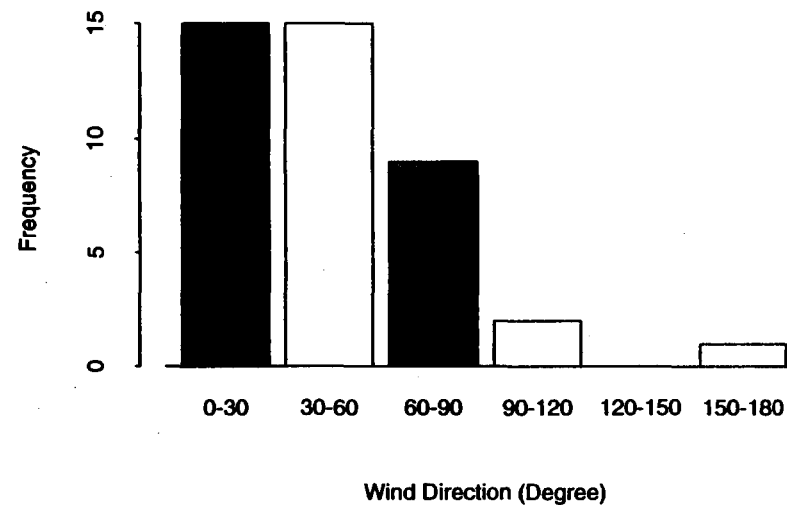
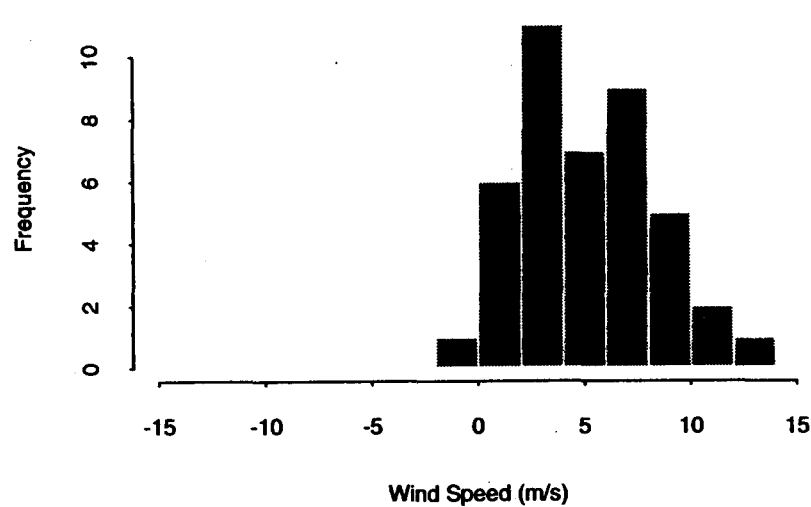
HES (Radar Wind Profiler) - EDWR (Radiosonde), 2000M



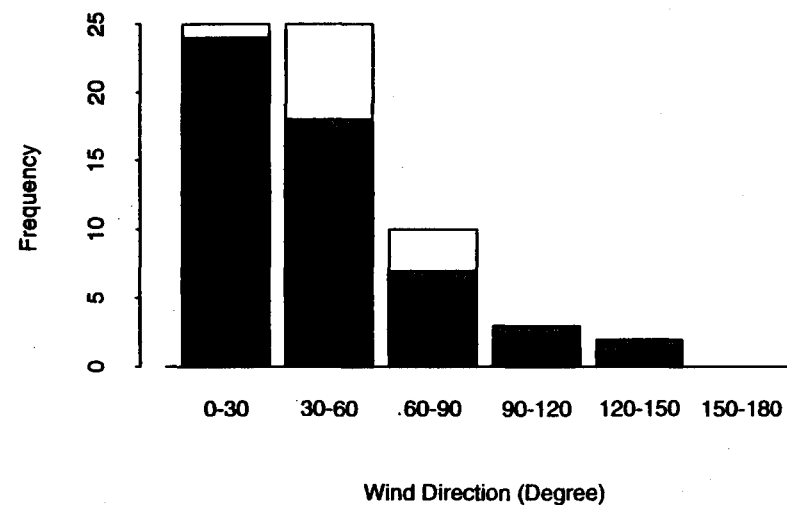
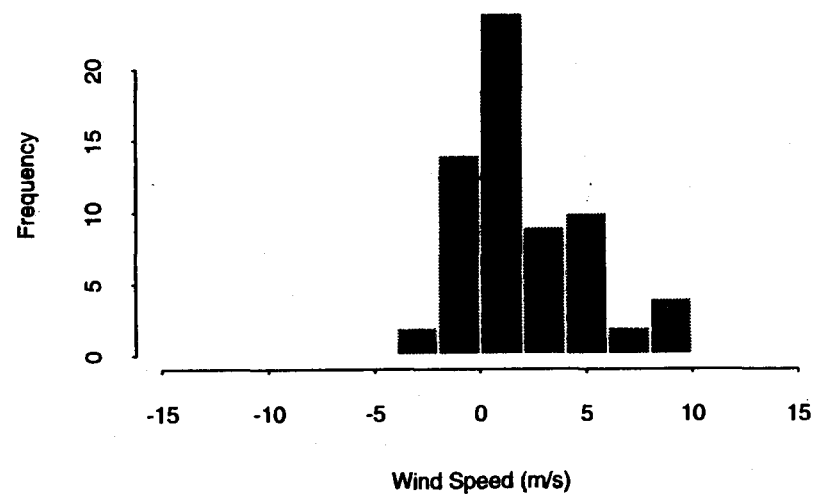
Frequency Distribution of Differences

HES (Radar Wind Profiler) - EDWR (Radiosonde), 300M

0000 GMT

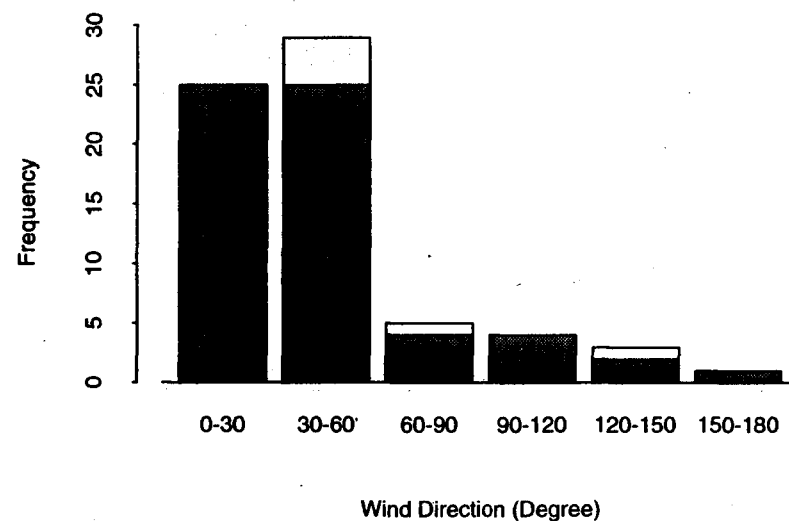
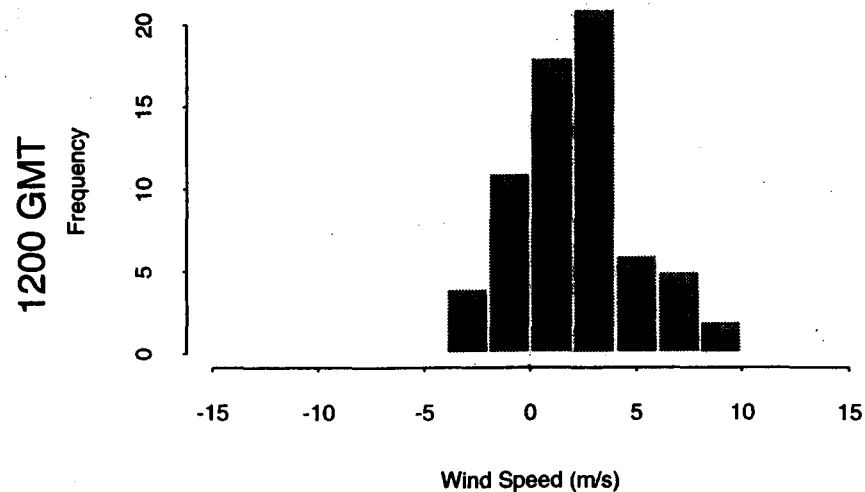
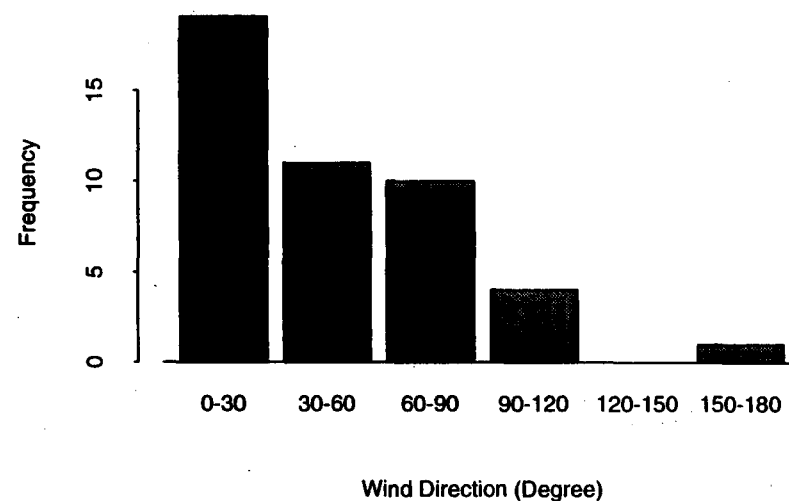
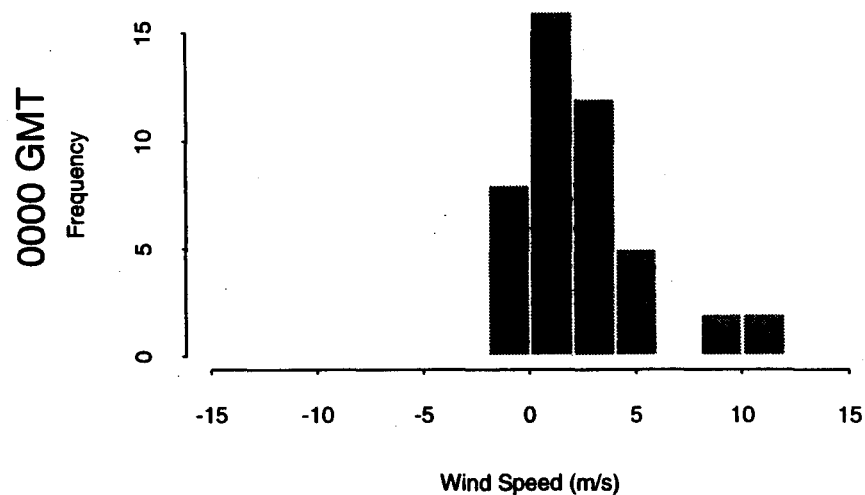


1200 GMT



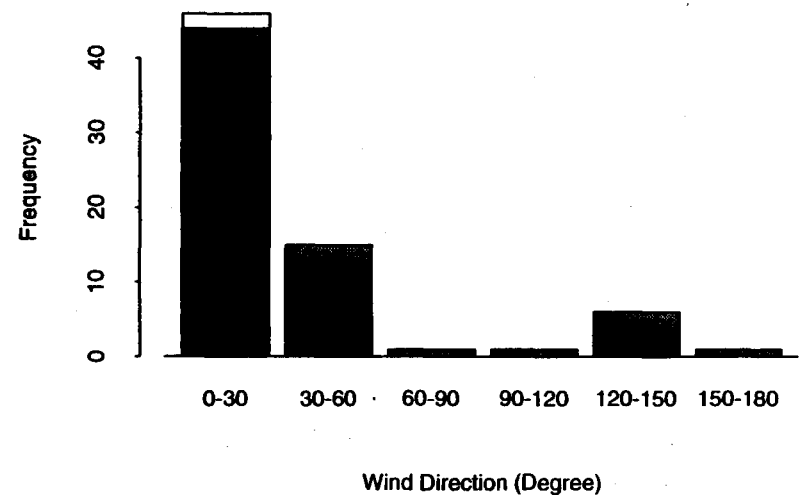
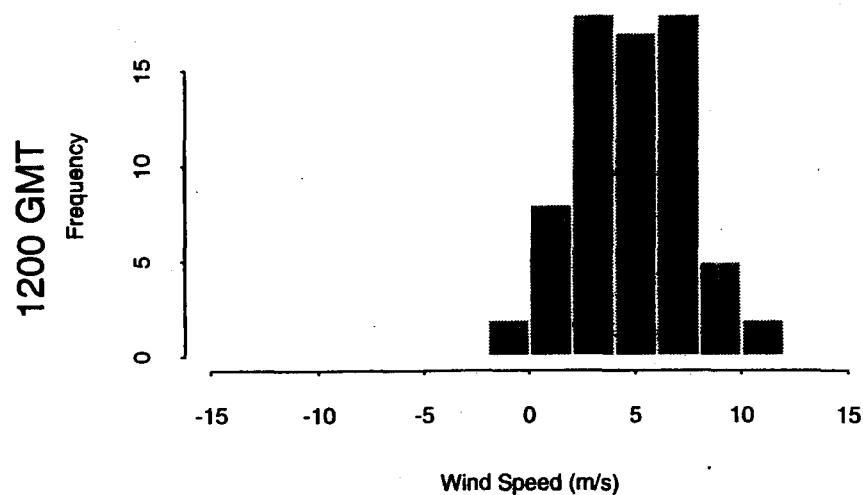
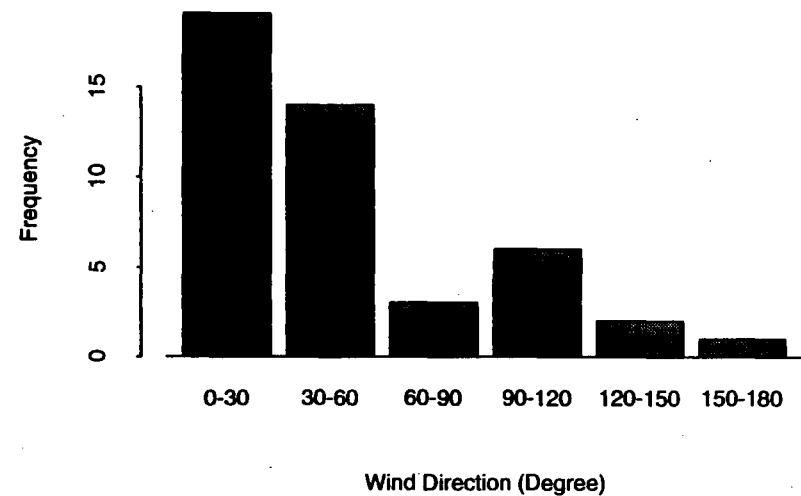
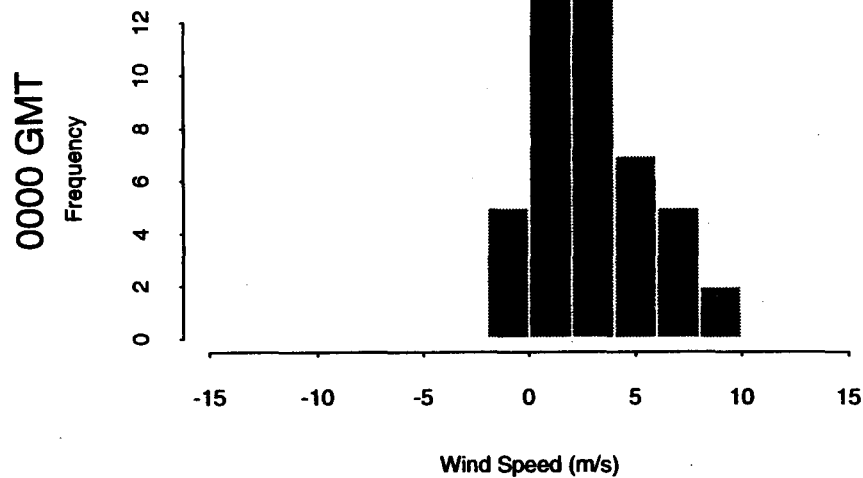
Frequency Distribution of Differences

HES (Radar Wind Profiler) - EDWR (Radiosonde), 1000M

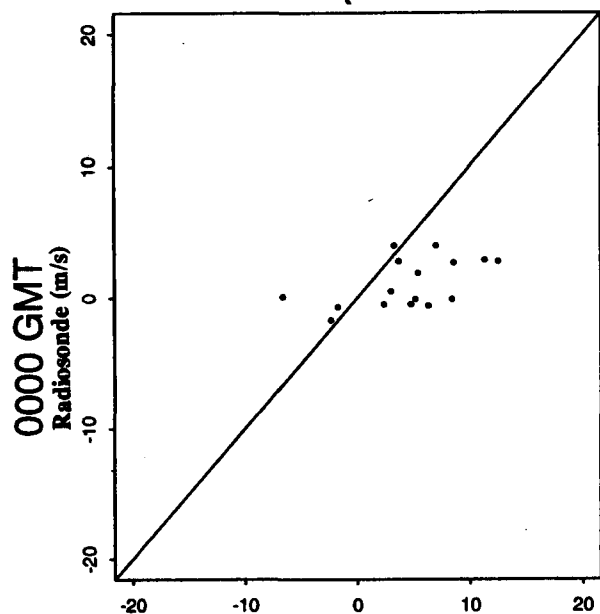


Frequency Distribution of Differences

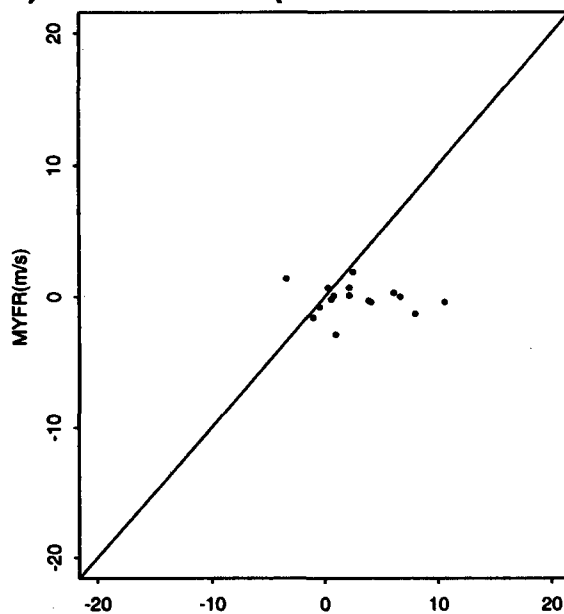
HES (Radar Wind Profiler) - EDWR (Radiosonde), 2000M



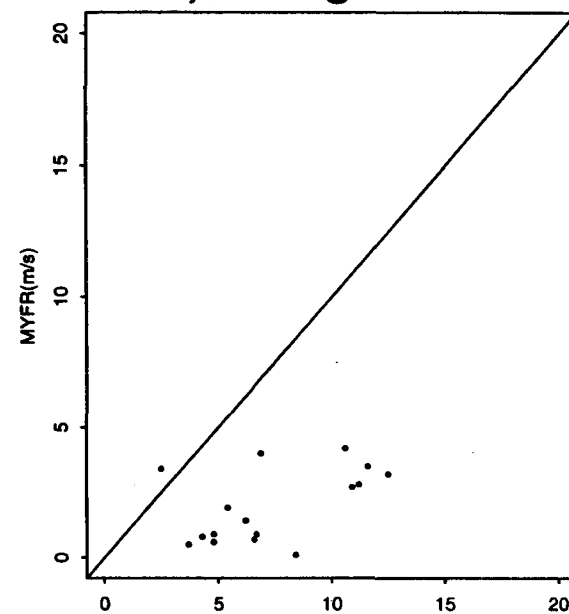
EDWR (Radiosonde) vs BAN (Radar Wind Profiler), Height=300M



U-Component (m/s)

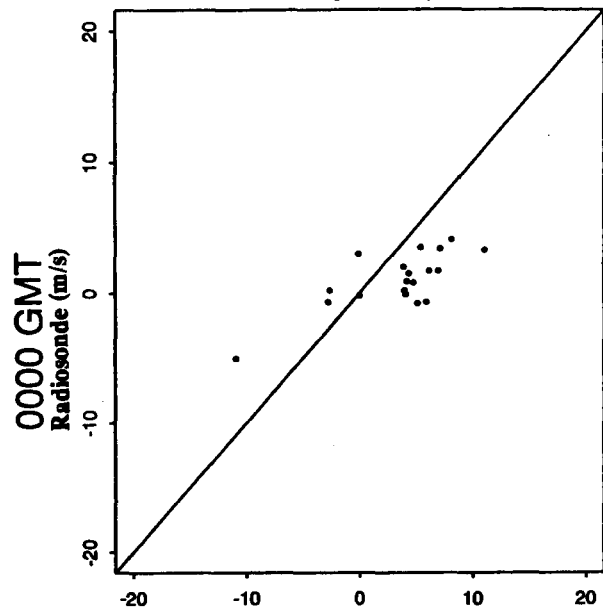


V-Component (m/s)



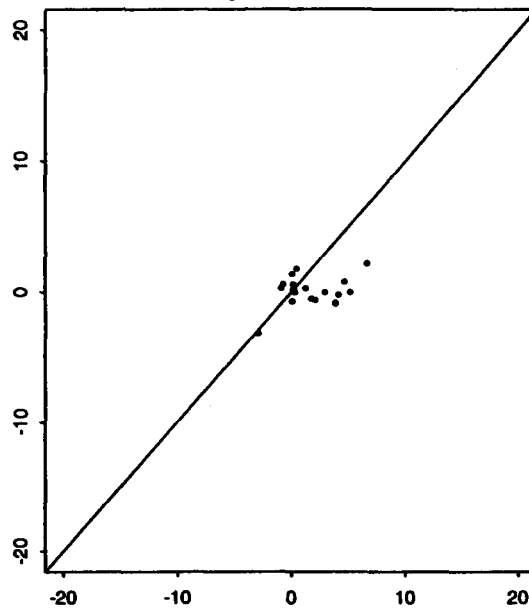
Wind Speed (m/s)

EDWR (Radiosonde) vs BAN (Radar Wind Profiler), Height=1000M



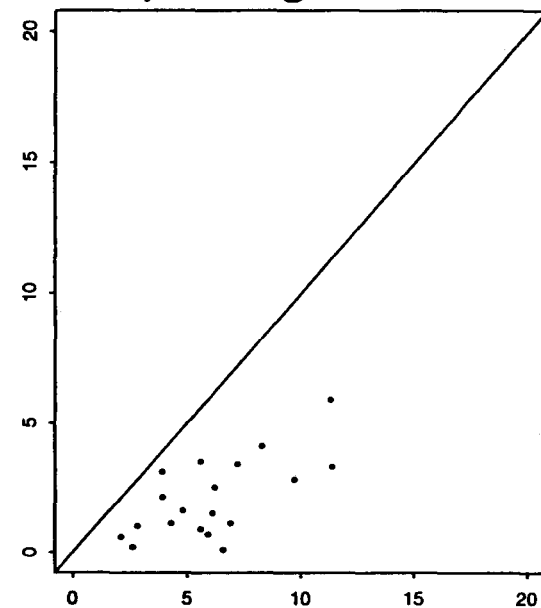
Radar Wind Profiler (m/s)

U-Component (m/s)



Radar Wind Profiler (m/s)

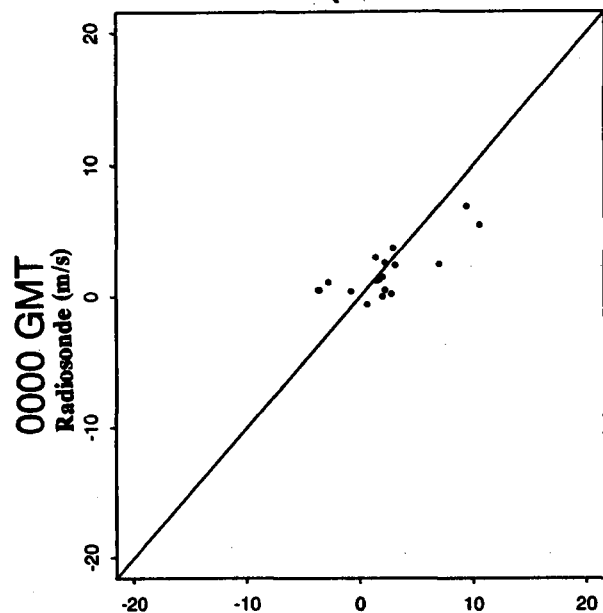
V-Component (m/s)



Radar Wind Profiler (m/s)

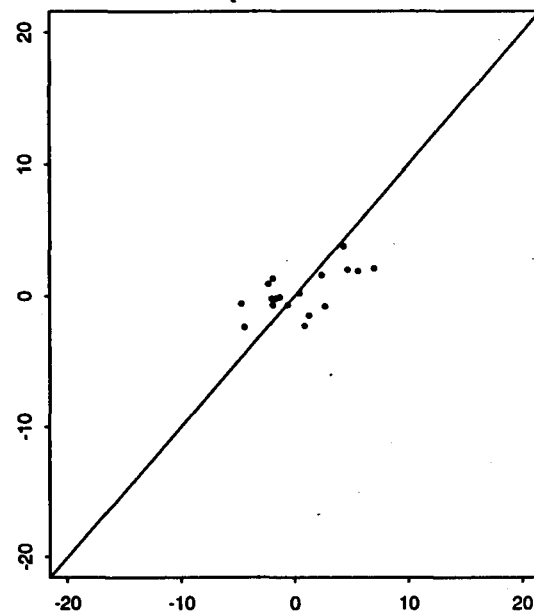
Wind Speed (m/s)

EDWR (Radiosonde) vs BAN (Radar Wind Profiler), Height=2000M



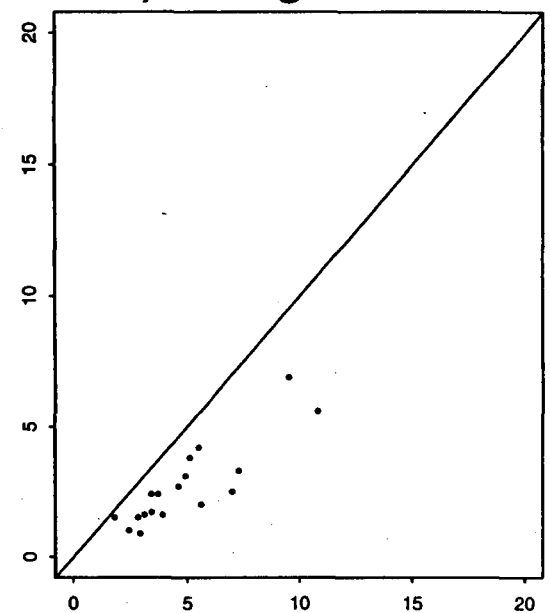
Radar Wind Profiler (m/s)

U-Component (m/s)



Radar Wind Profiler (m/s)

V-Component (m/s)

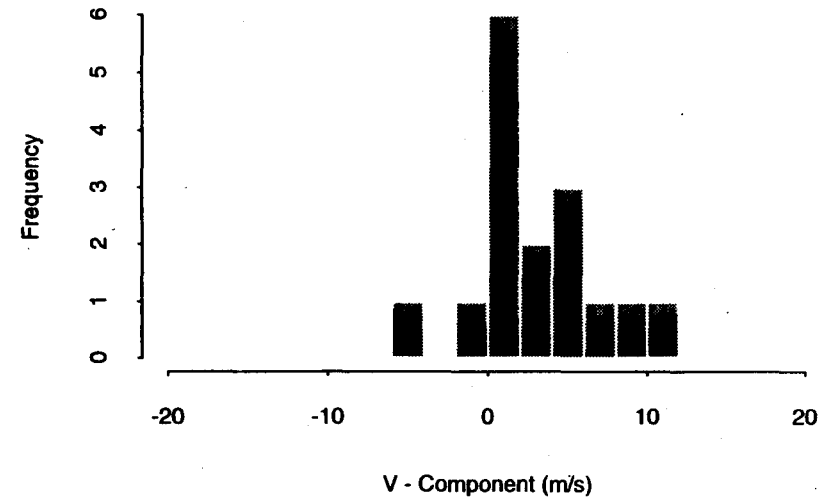
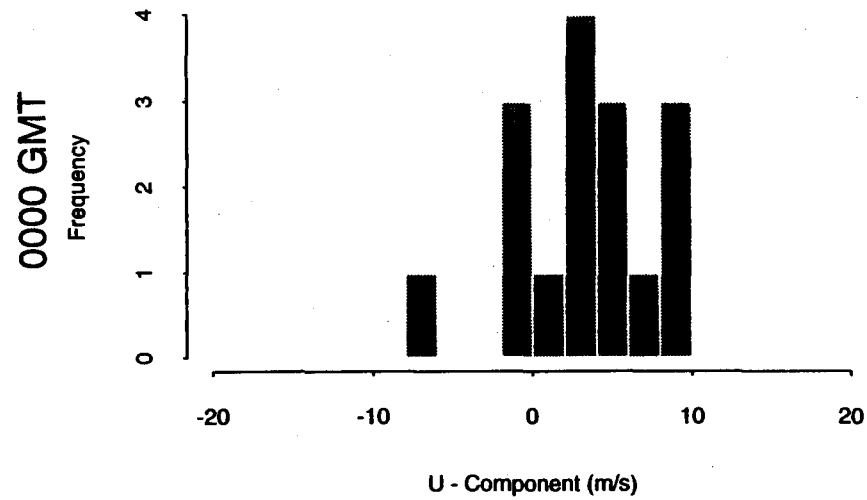


Radar Wind Profiler (m/s)

Wind Speed (m/s)

Frequency Distribution of Differences

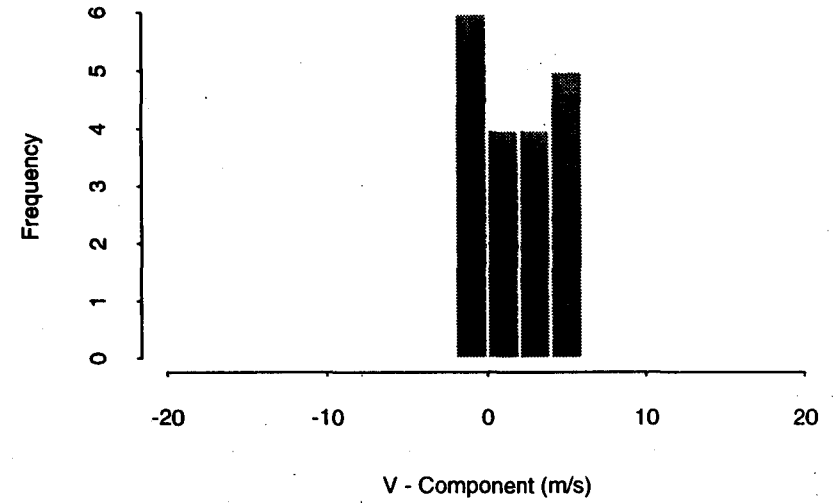
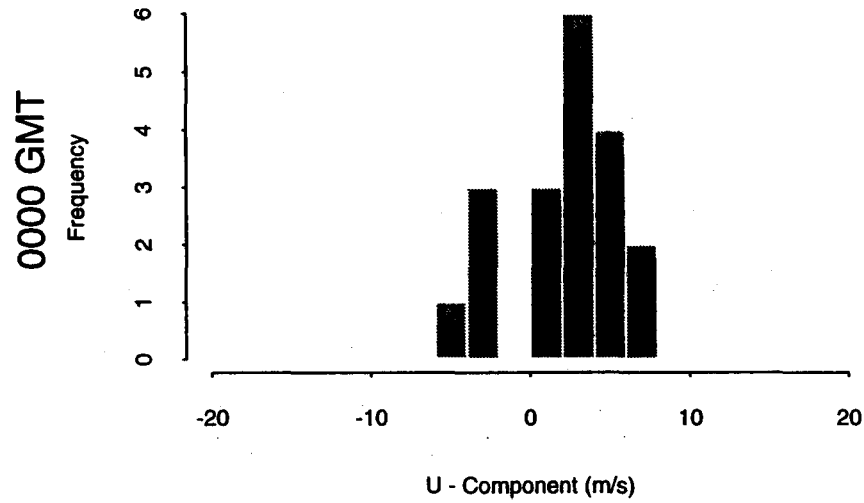
BAN (Radar Wind Profiler) - EDWR (Radiosonde), 300M



1200 GMT

Frequency Distribution of Differences

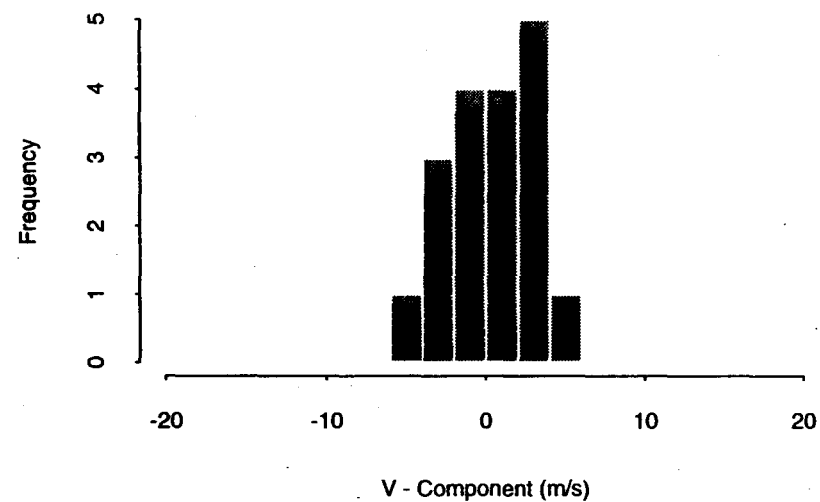
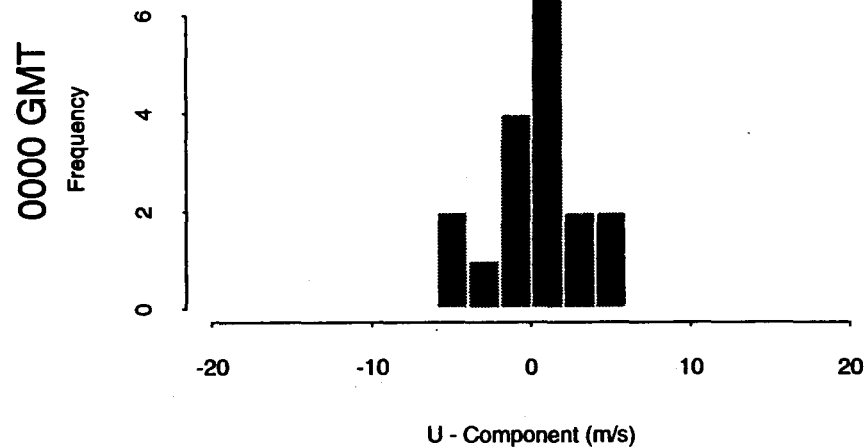
BAN (Radar Wind Profiler) - EDWR (Radiosonde), 1000M



1200 GMT

Frequency Distribution of Differences

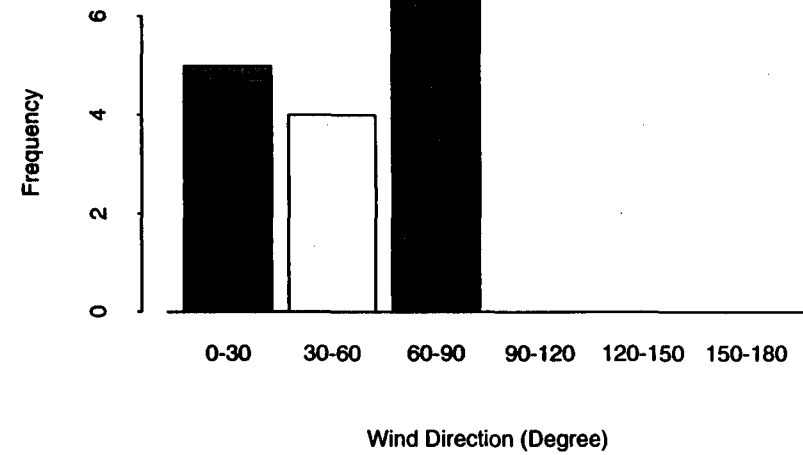
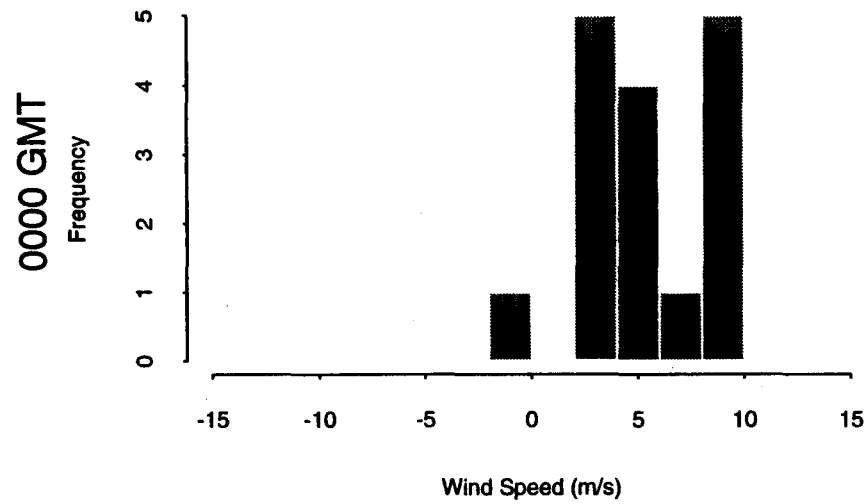
BAN (Radar Wind Profiler) - EDWR (Radiosonde), 2000M



1200 GMT

Frequency Distribution of Differences

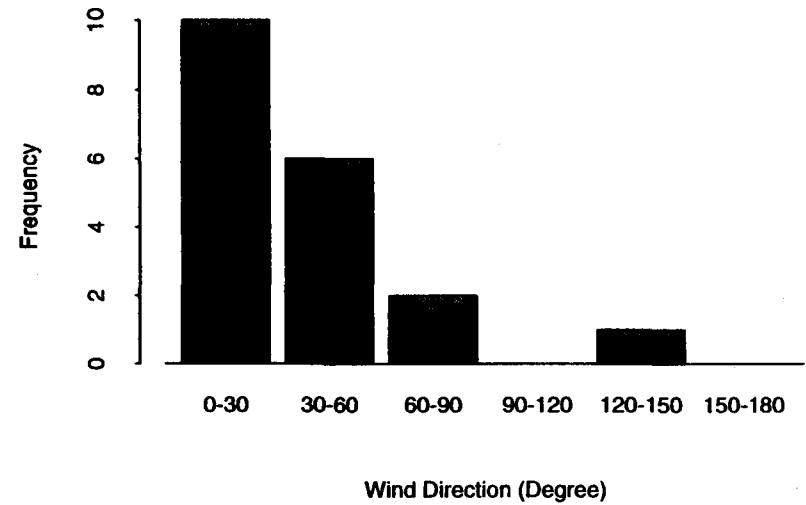
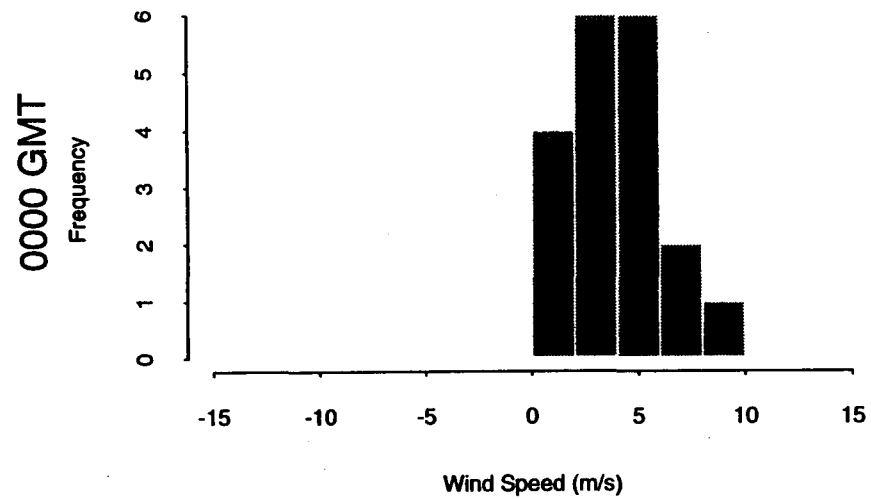
BAN (Radar Wind Profiler) - EDWR (Radiosonde), 300M



1200 GMT

Frequency Distribution of Differences

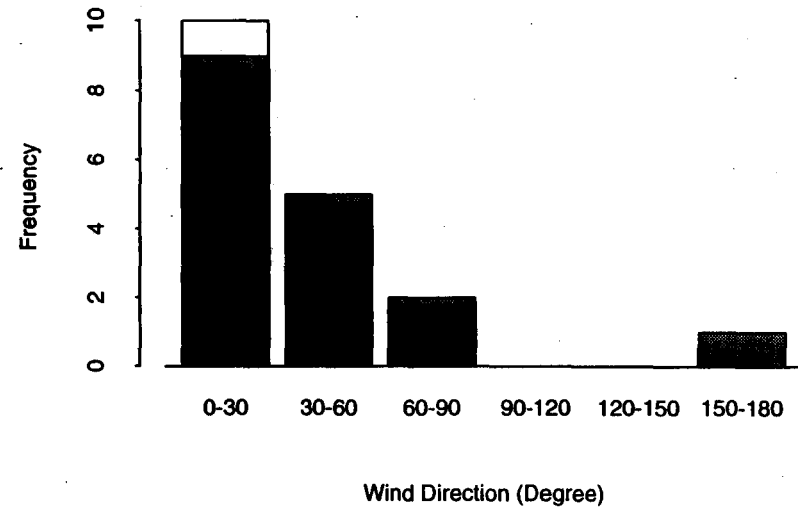
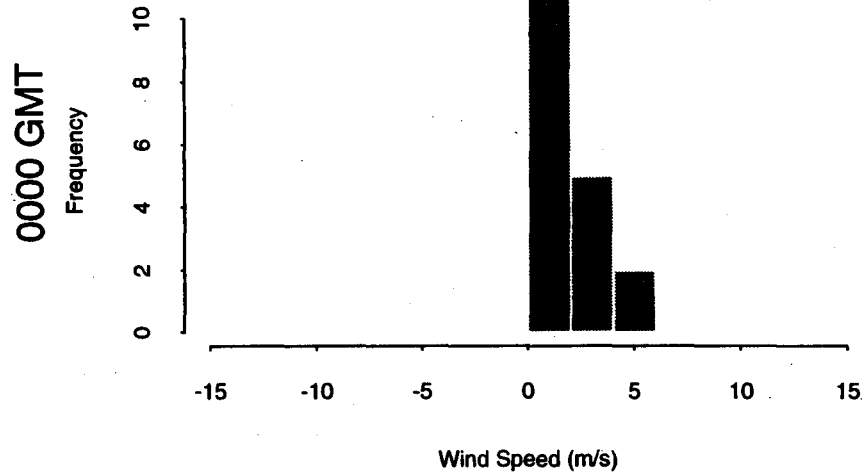
BAN (Radar Wind Profiler) - EDWR (Radiosonde), 1000M



1200 GMT

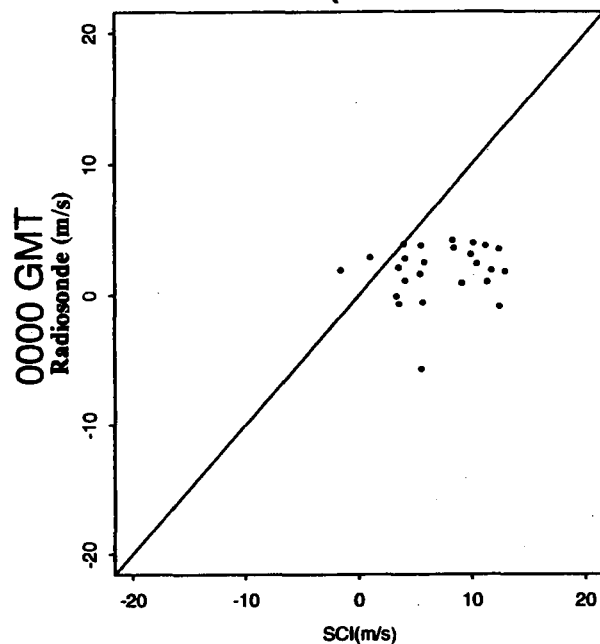
Frequency Distribution of Differences

BAN (Radar Wind Profiler) - EDWR (Radiosonde), 2000M

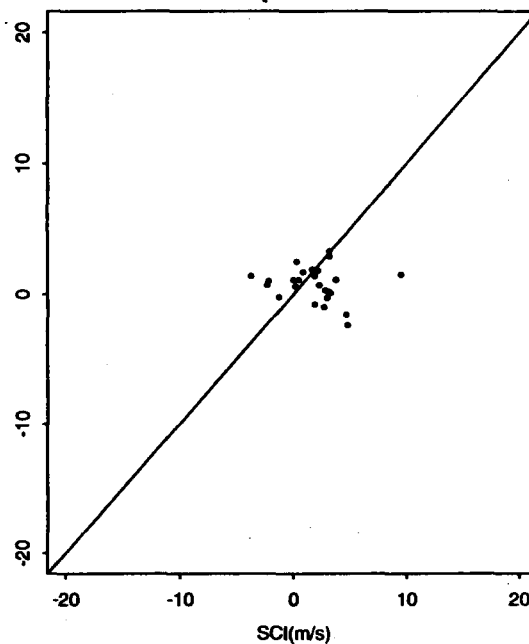


1200 GMT

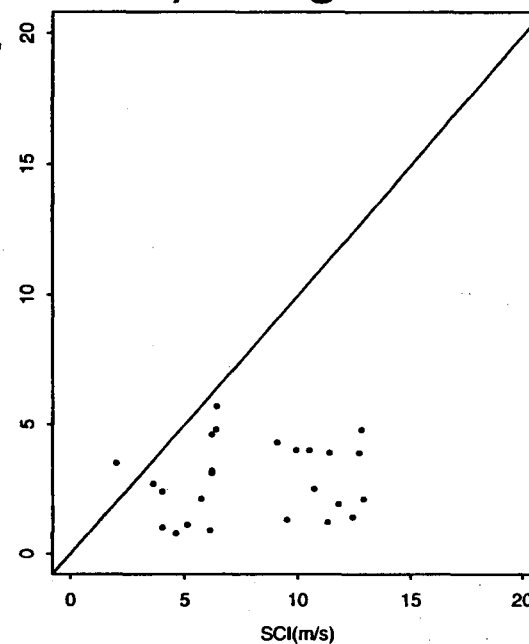
EDWR (Radiosonde) vs WWR (Radar Wind Profiler), Height=300M



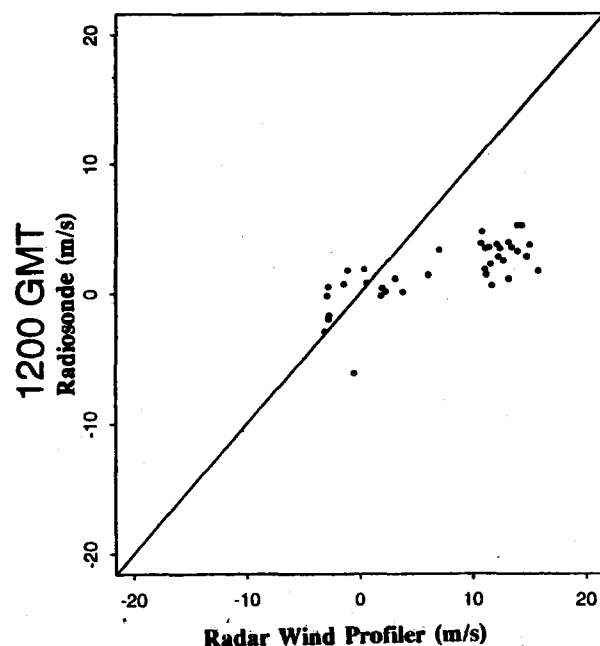
U-Component (m/s)



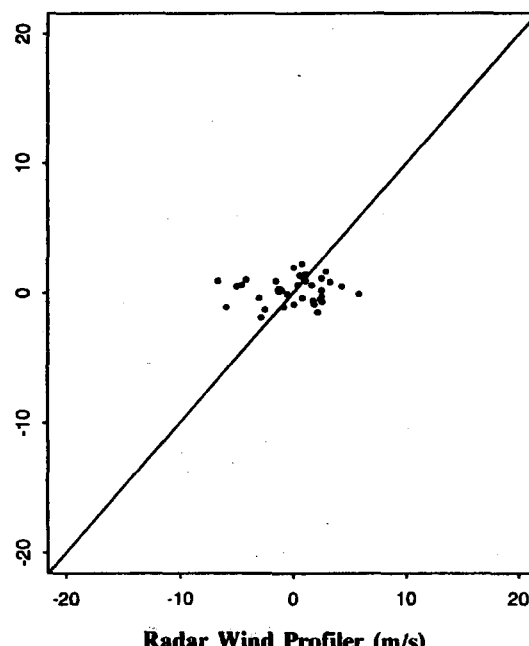
V-Component (m/s)



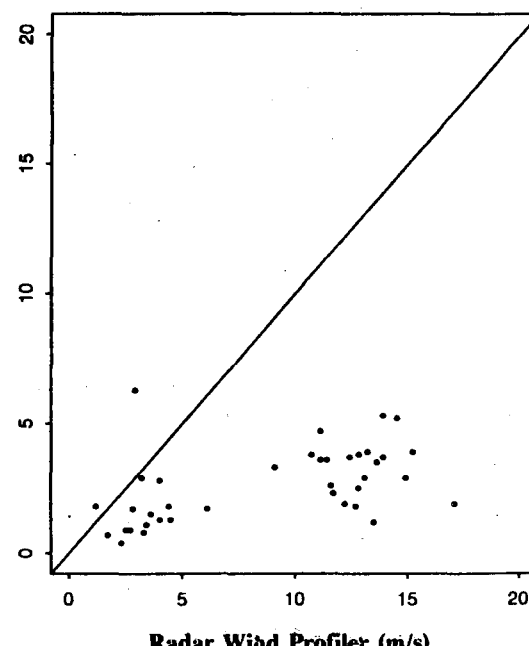
Wind Speed (m/s)



Radar Wind Profiler (m/s)

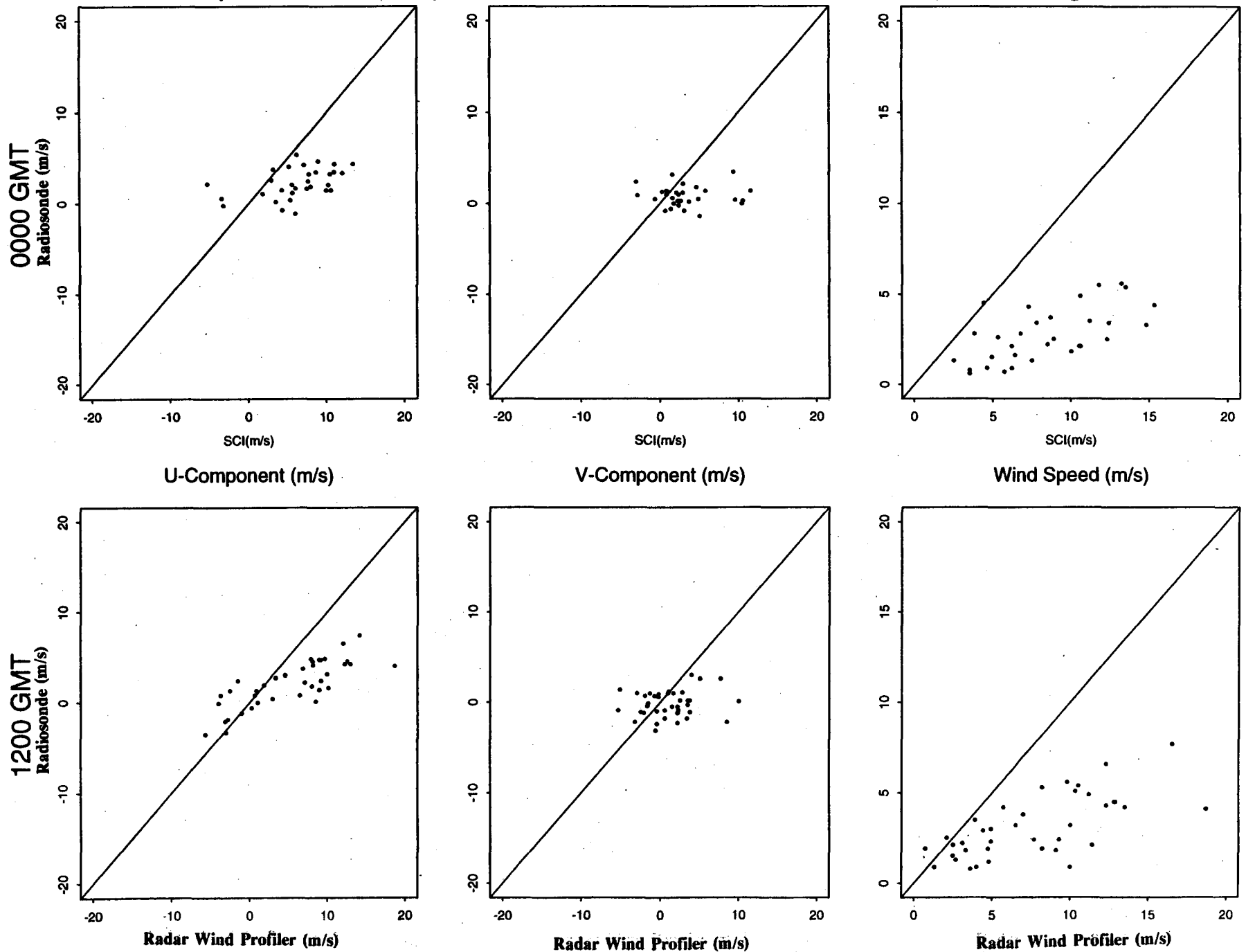


Radar Wind Profiler (m/s)

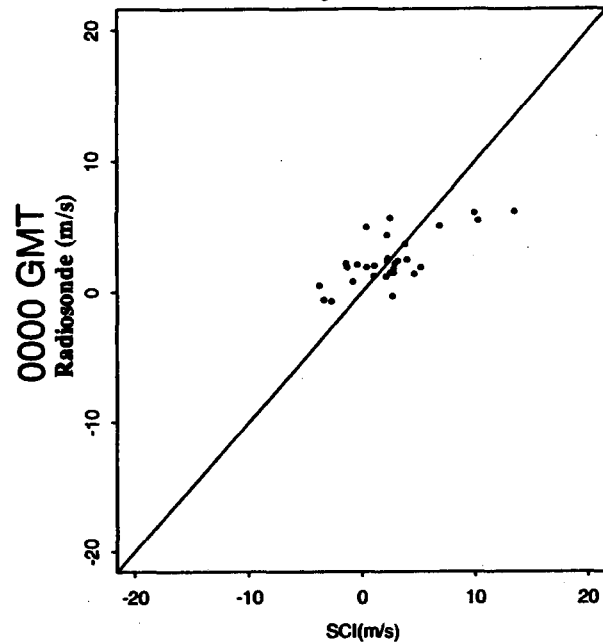


Radar Wind Profiler (m/s)

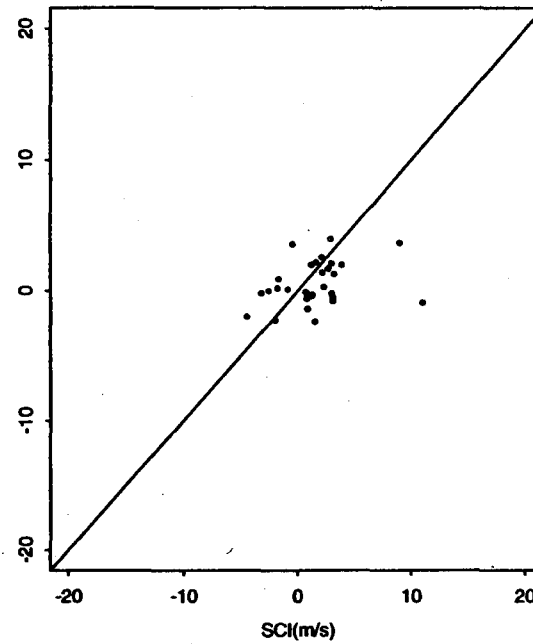
EDWR (Radiosonde) vs WWR (Radar Wind Profiler), Height=1000M



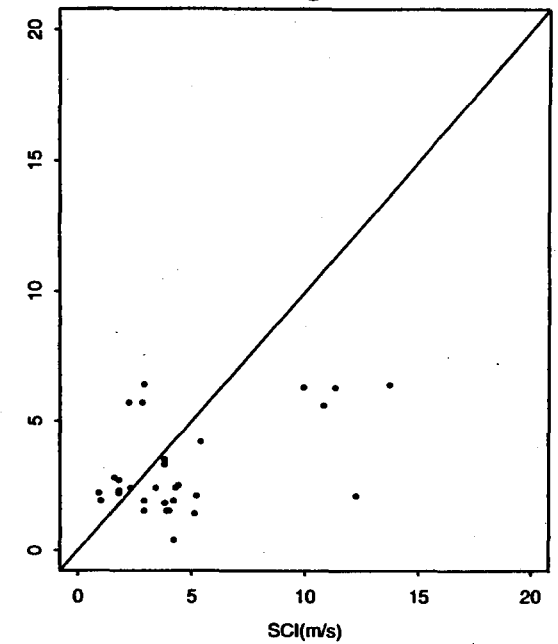
EDWR (Radiosonde) vs WWR (Radar Wind Profiler), Height=2000M



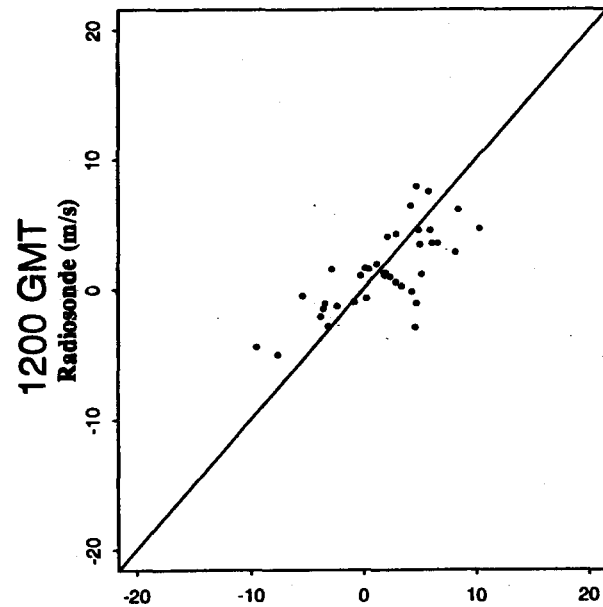
U-Component (m/s)



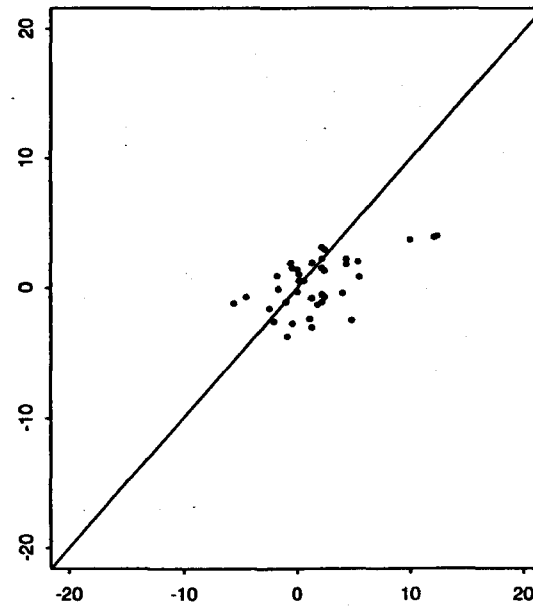
V-Component (m/s)



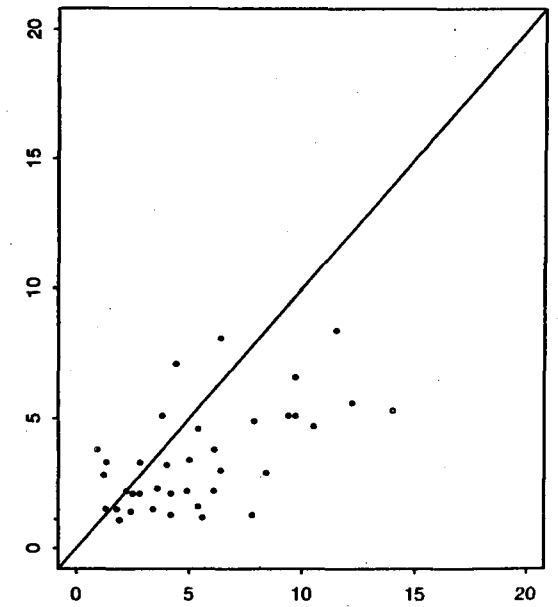
Wind Speed (m/s)



Radar Wind Profiler (m/s)



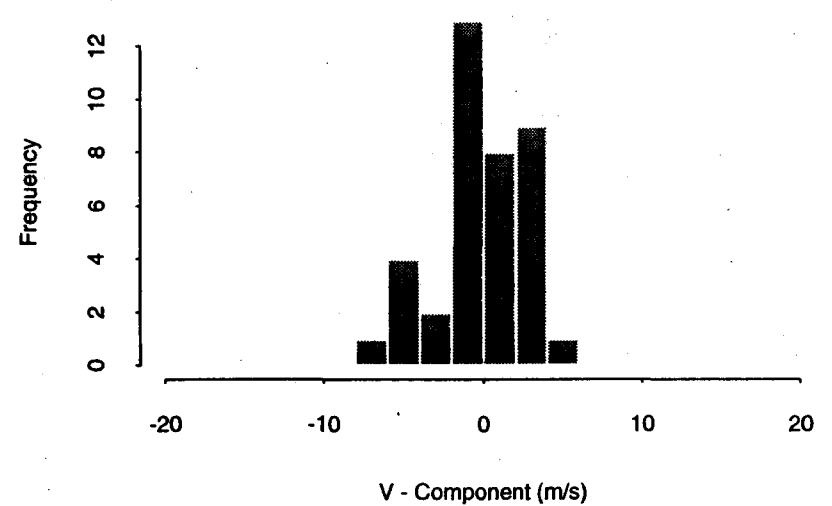
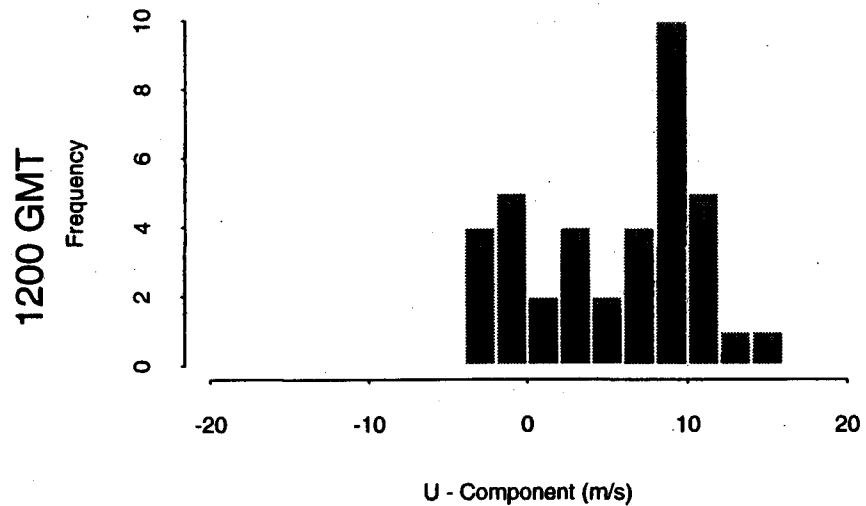
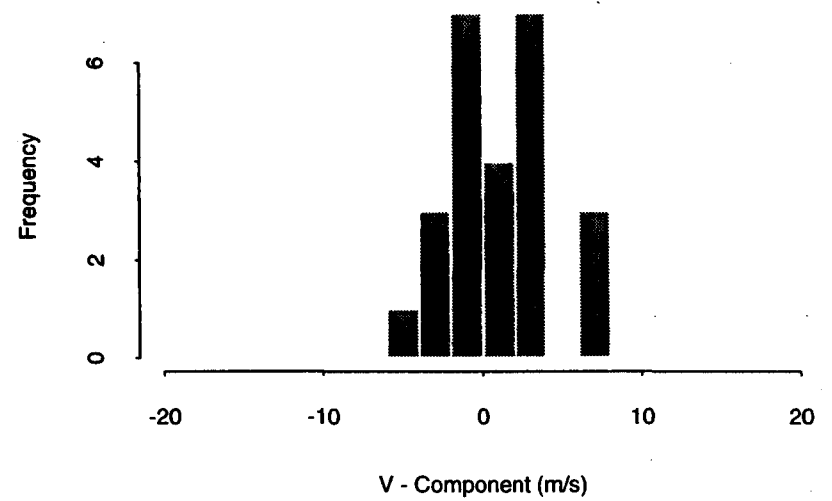
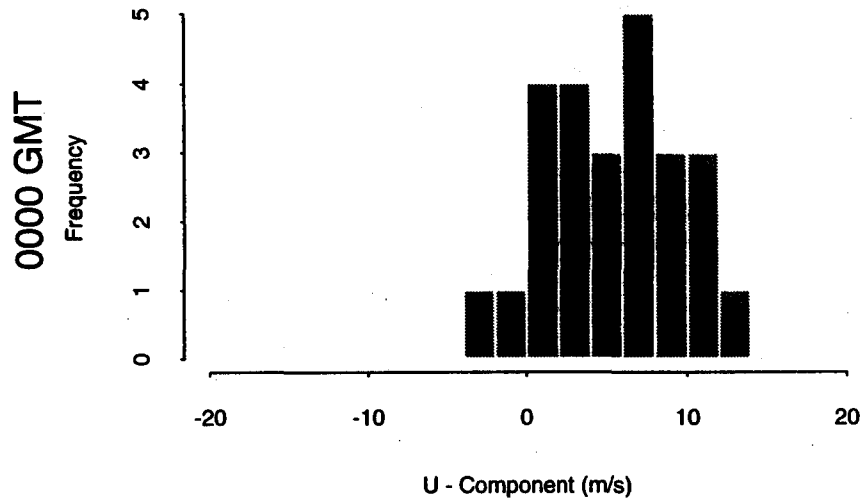
Radar Wind Profiler (m/s)



Radar Wind Profiler (m/s)

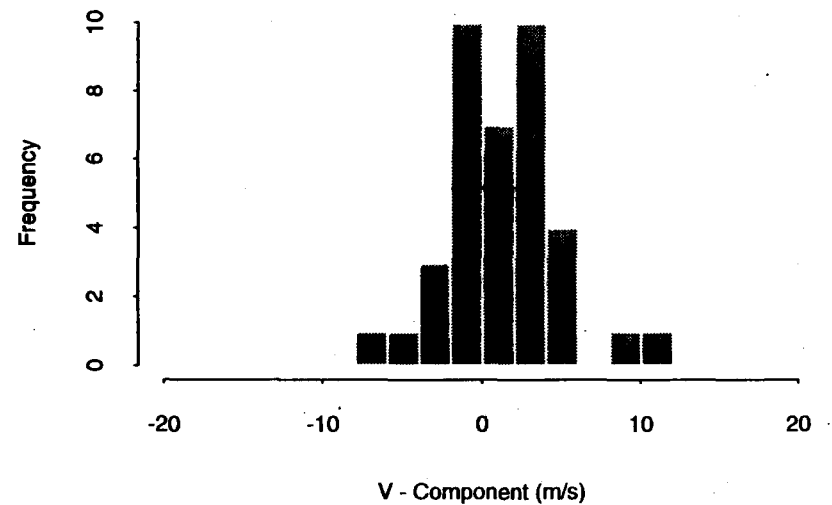
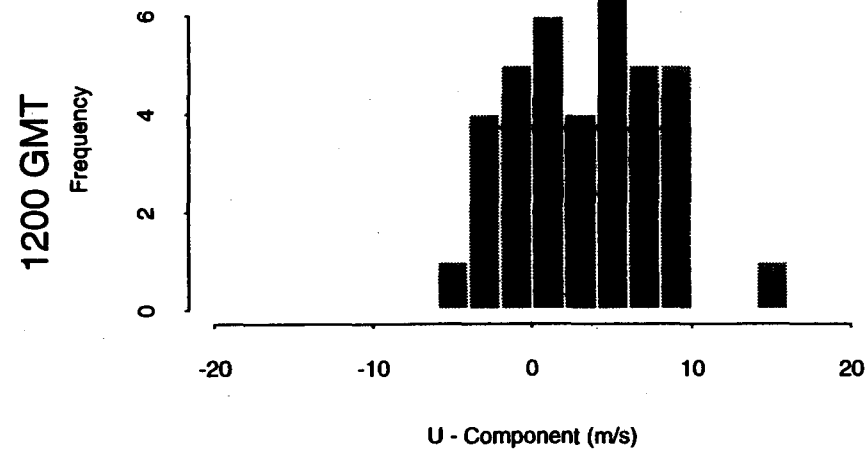
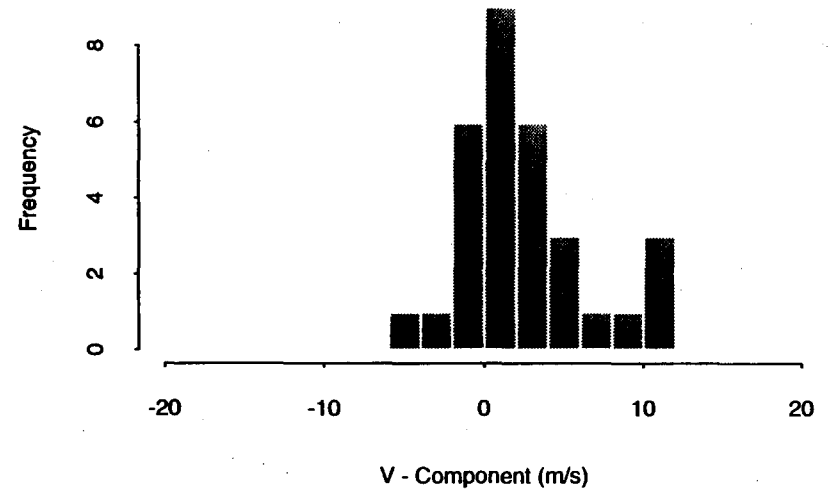
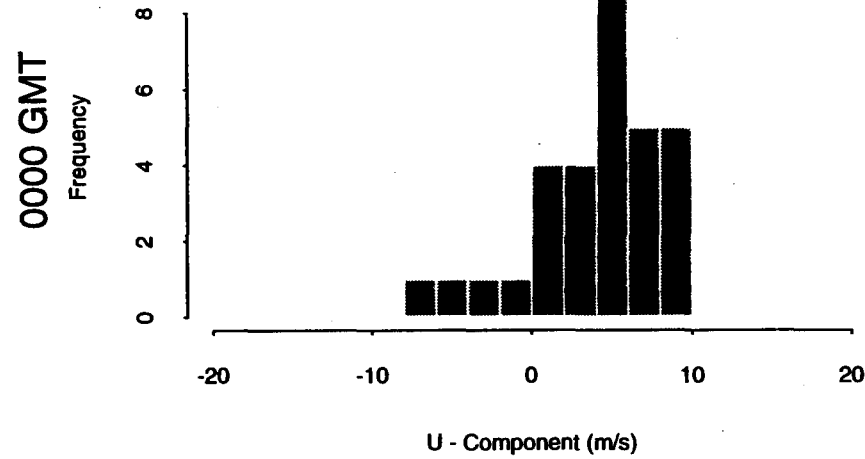
Frequency Distribution of Differences

WWR (Radar Wind Profiler) - EDWR (Radiosonde), 300M



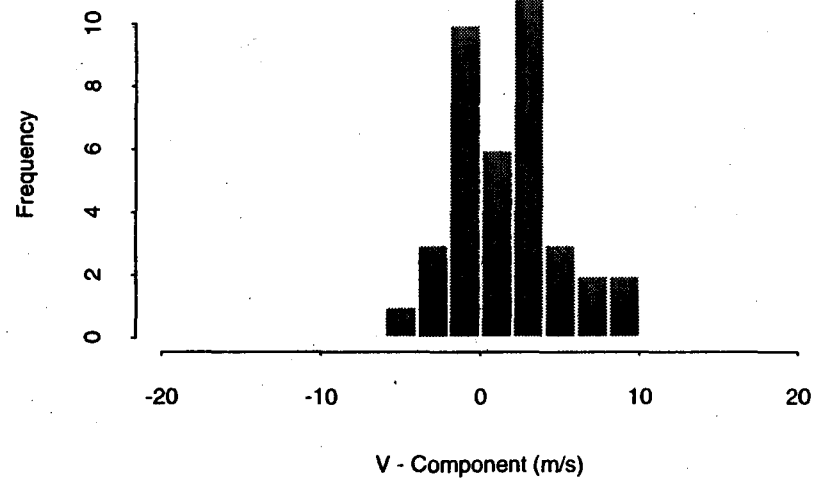
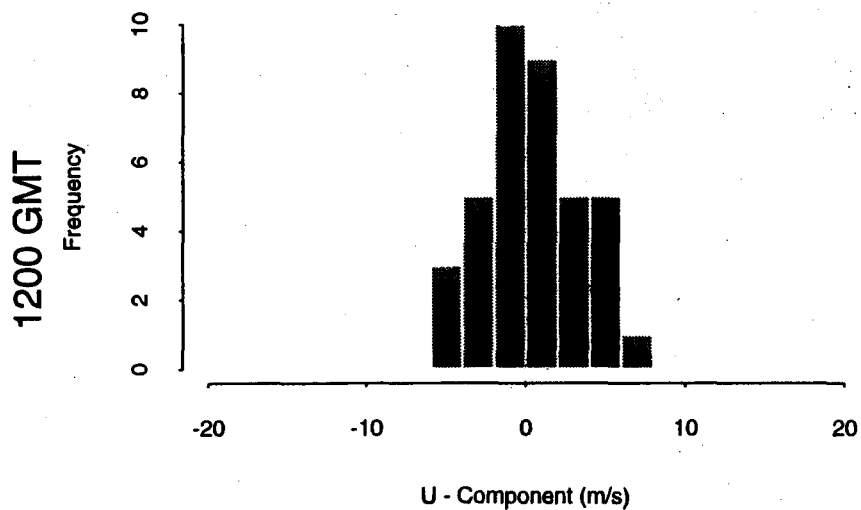
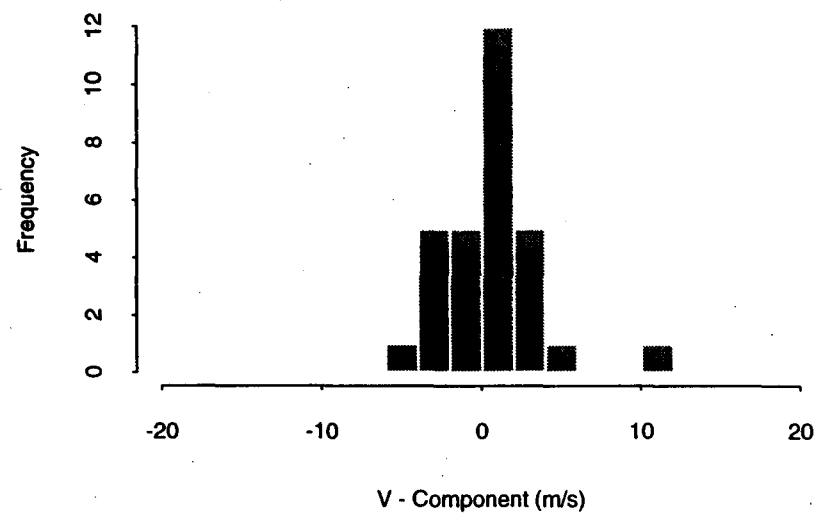
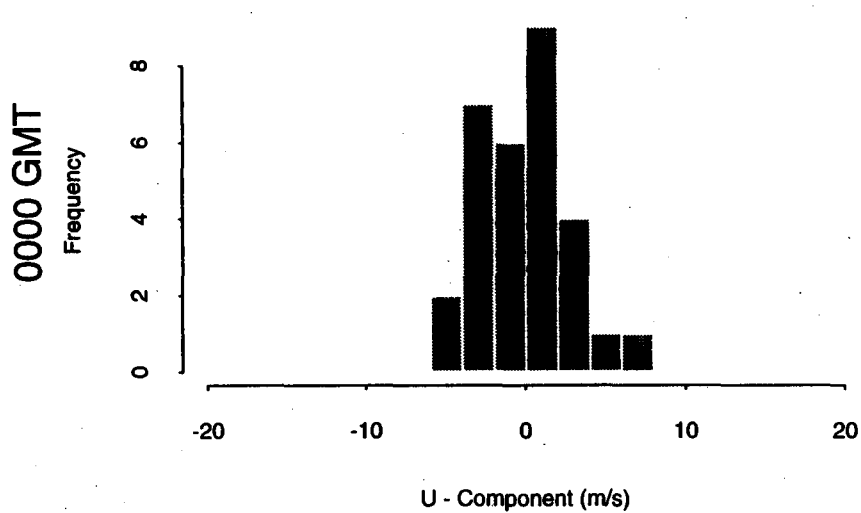
Frequency Distribution of Differences

WWR (Radar Wind Profiler) - EDWR (Radiosonde), 1000M



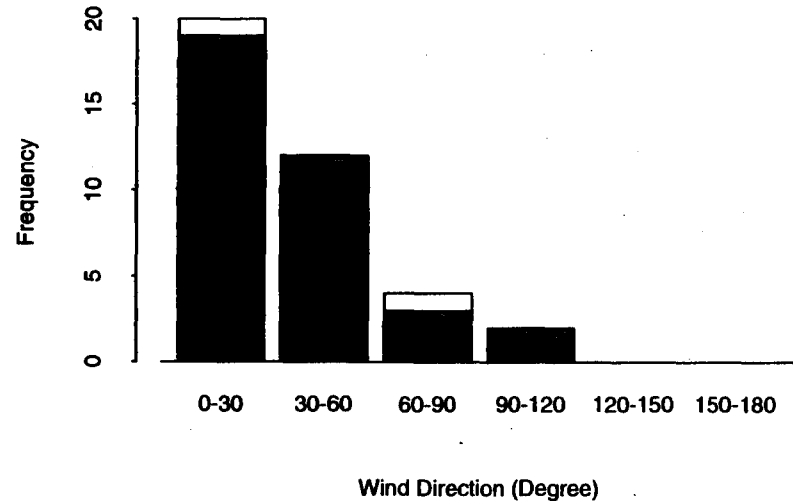
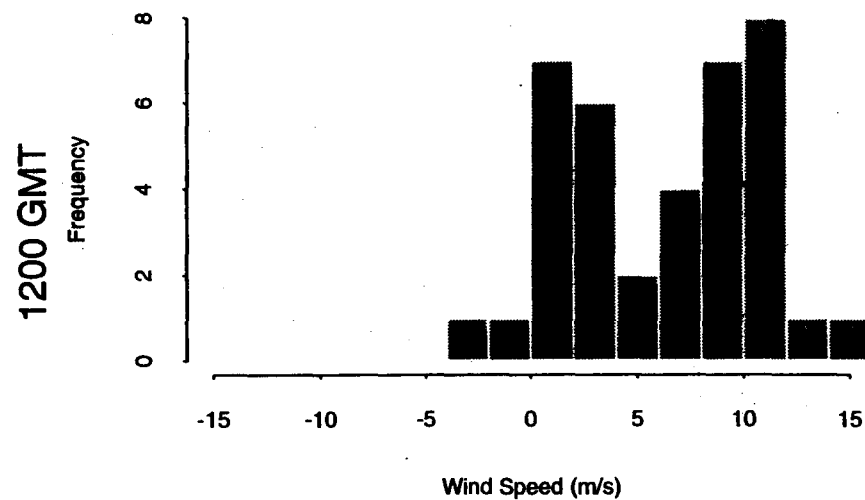
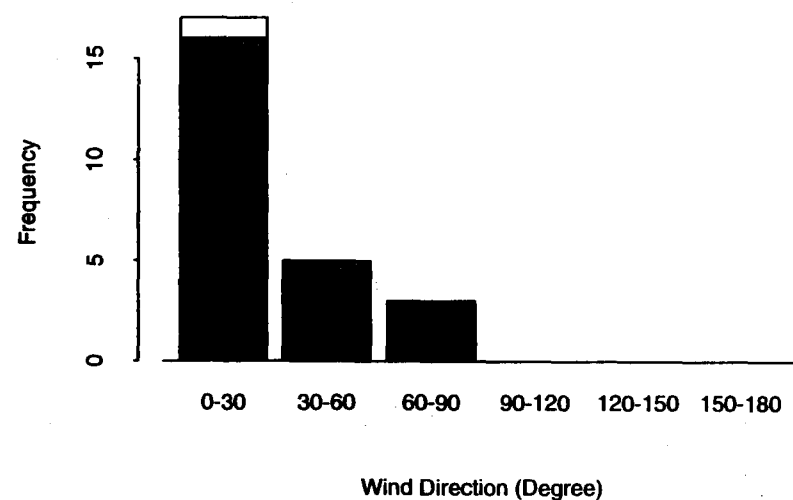
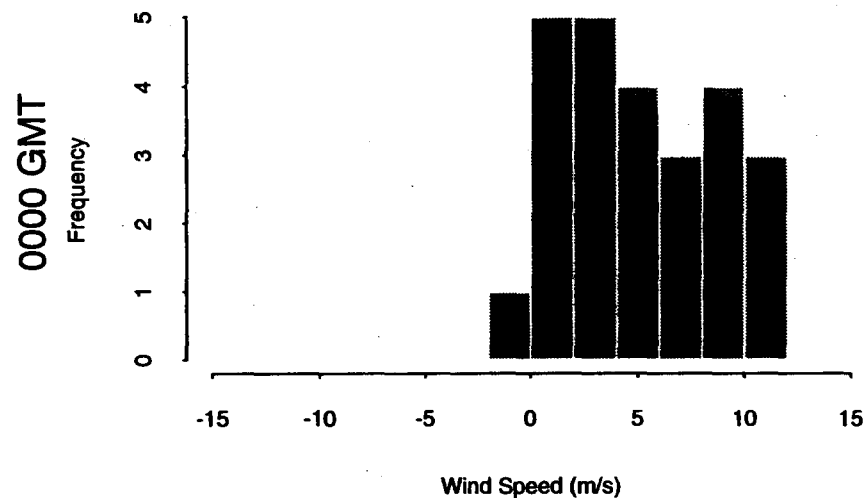
Frequency Distribution of Differences

WWR (Radar Wind Profiler) - EDWR (Radiosonde), 2000M



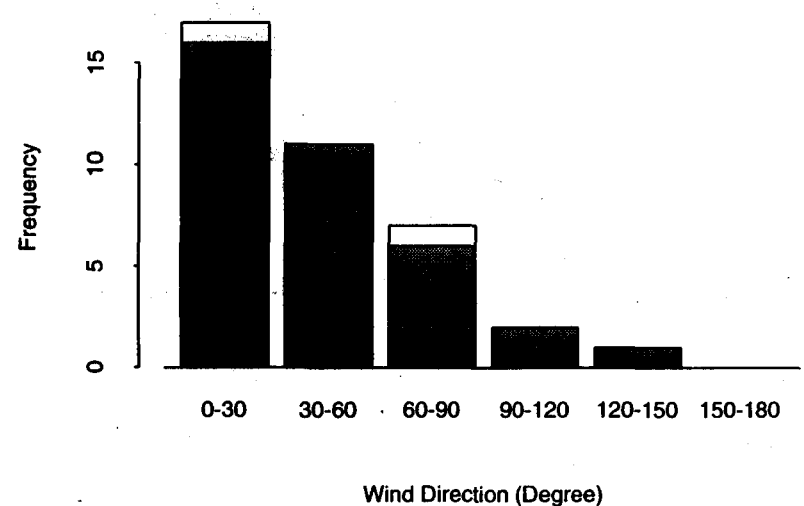
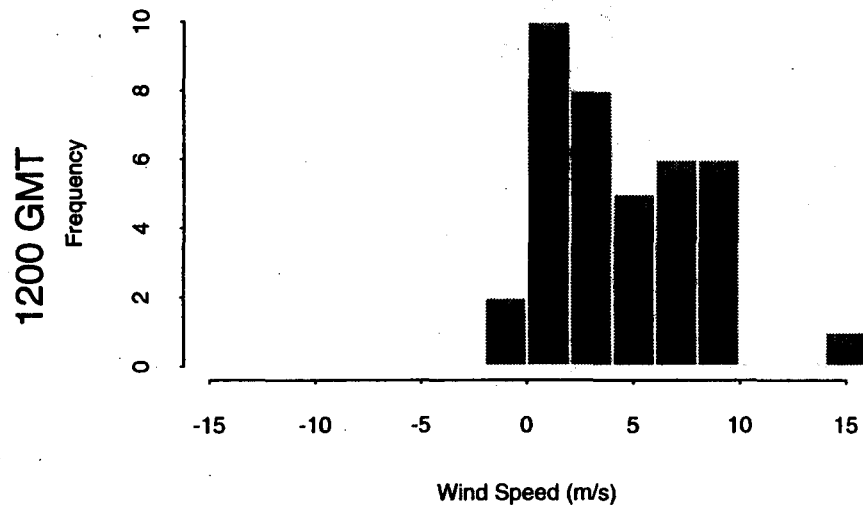
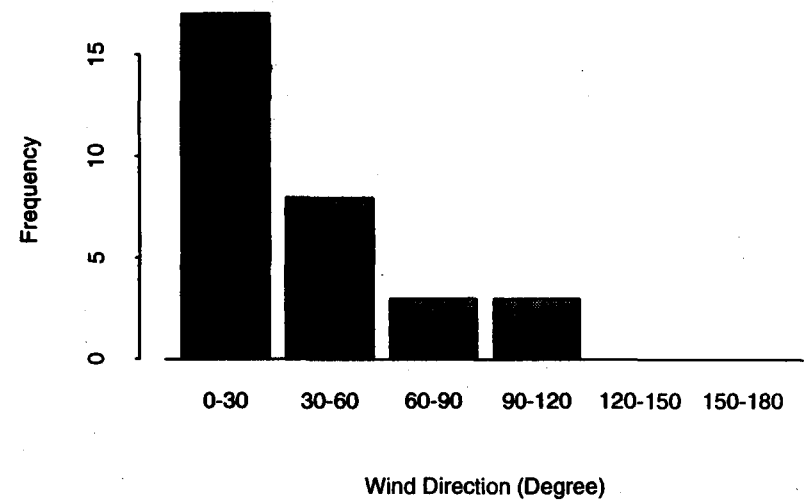
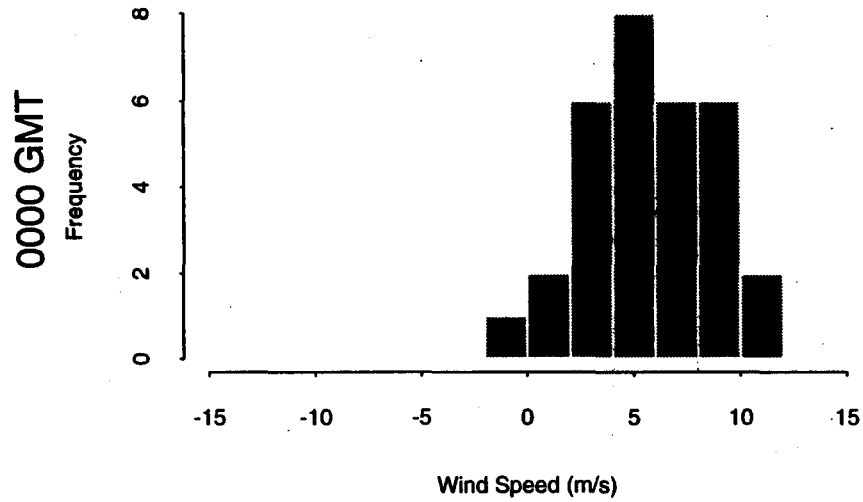
Frequency Distribution of Differences

WWR (Radar Wind Profiler) - EDWR (Radiosonde), 300M



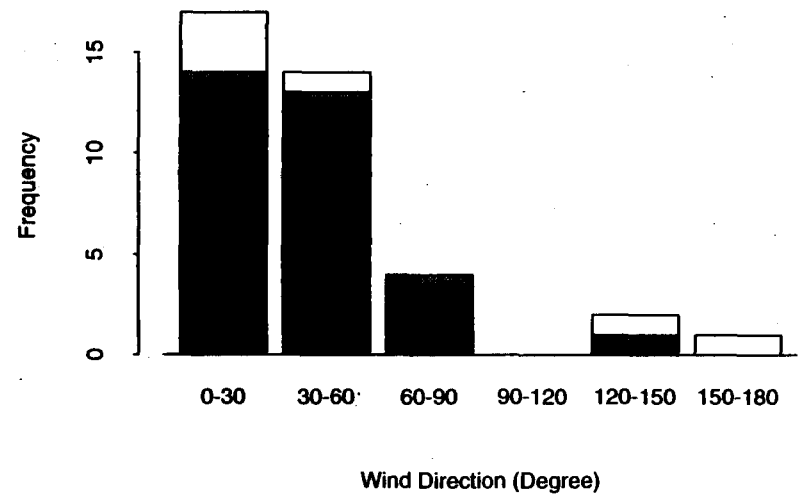
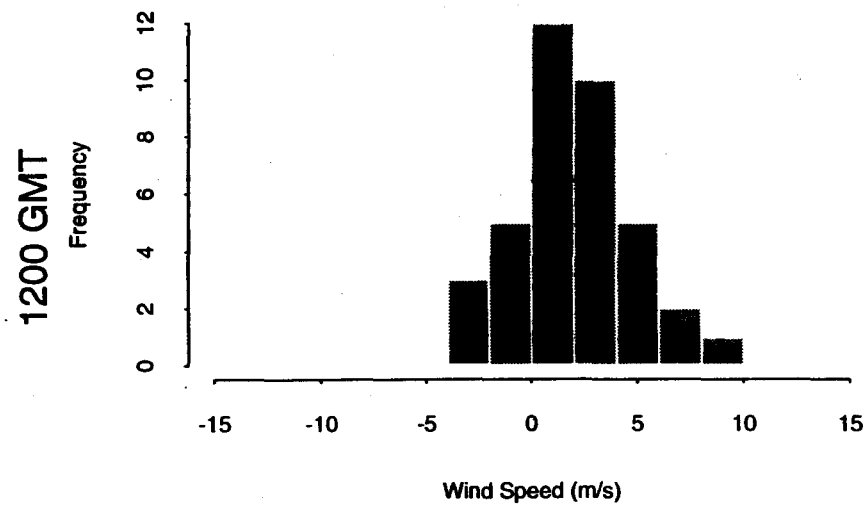
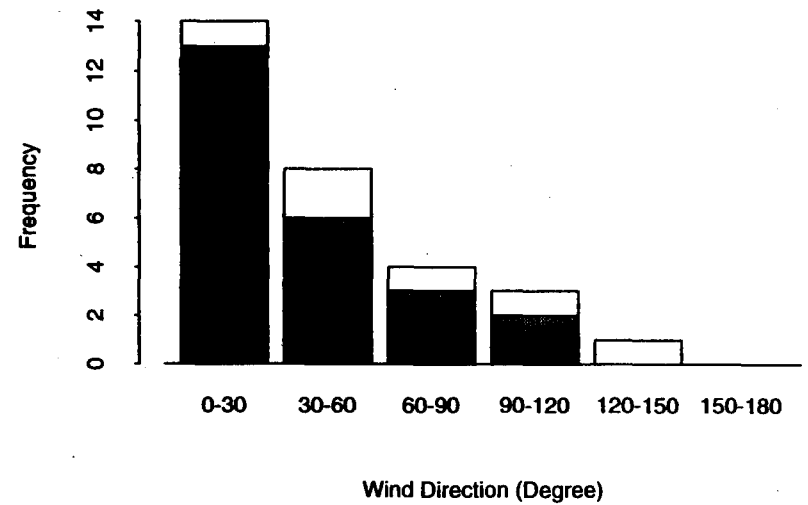
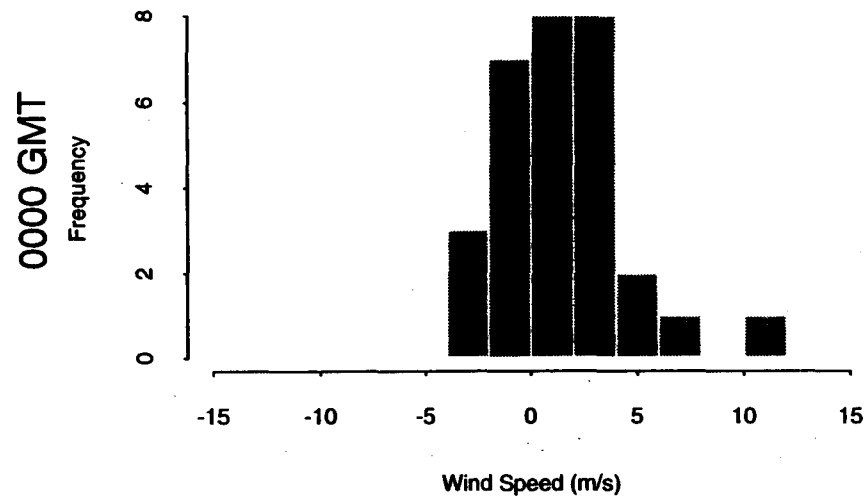
Frequency Distribution of Differences

WWR (Radar Wind Profiler) - EDWR (Radiosonde), 1000M



Frequency Distribution of Differences

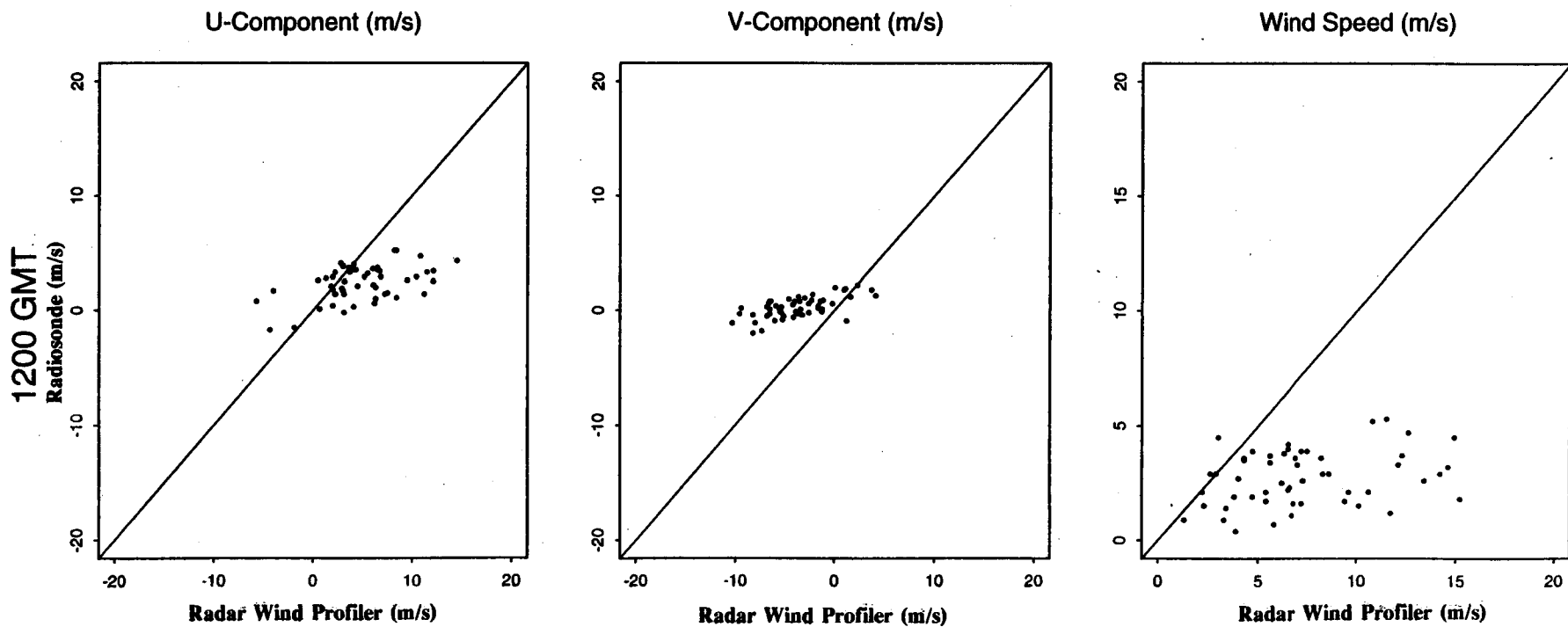
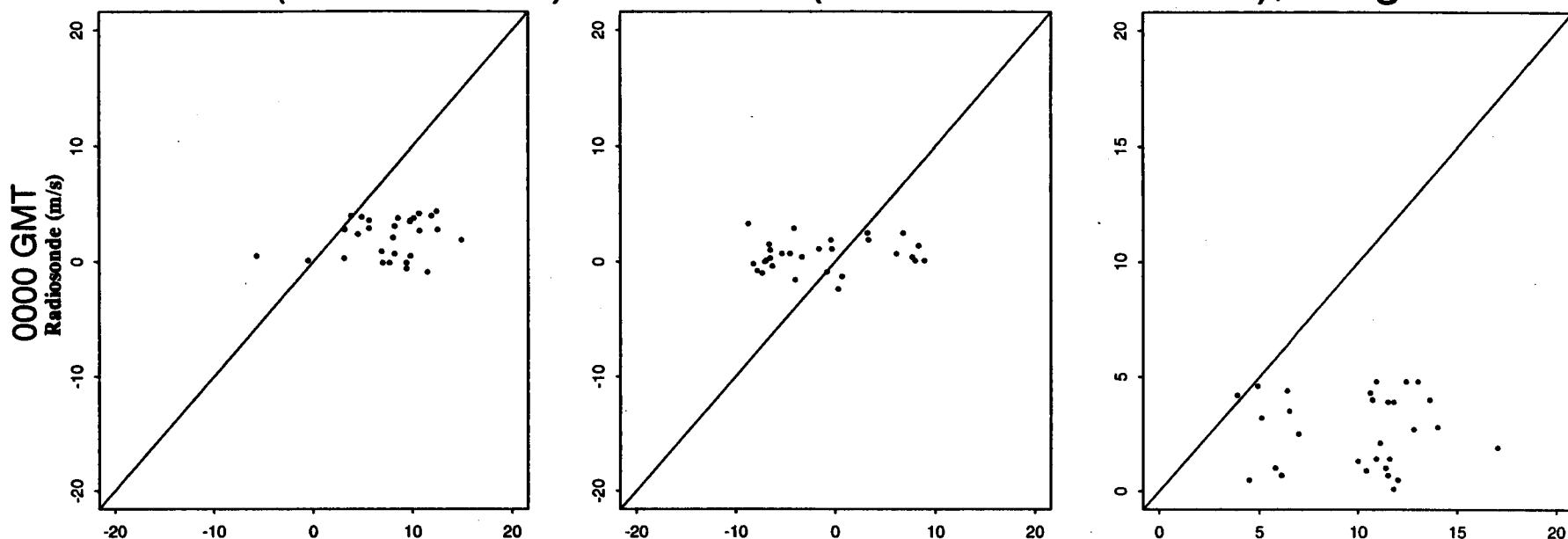
WWR (Radar Wind Profiler) - EDWR (Radiosonde), 2000M



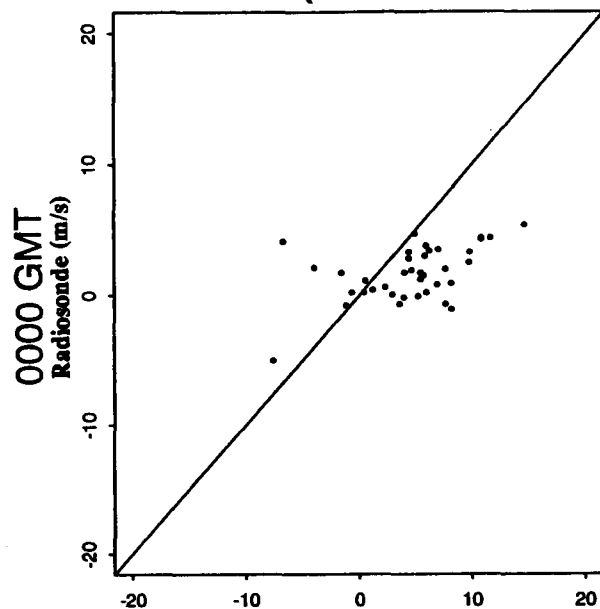
Appendix A2

**COMPARISON OF LOW AND HIGH RESOLUTION RADAR WIND PROFILER
(RWP) WIND DATA FOR THE MOJAVE (MOJ) PROFILER SITE WITH THE
EDWARDS RADIOSONDE DATA**

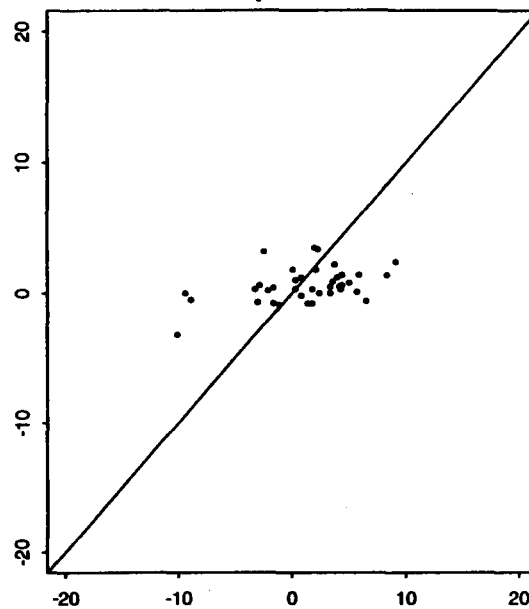
EDWR (Radiosonde) vs MOJH (Radar Wind Profiler), Height=300M



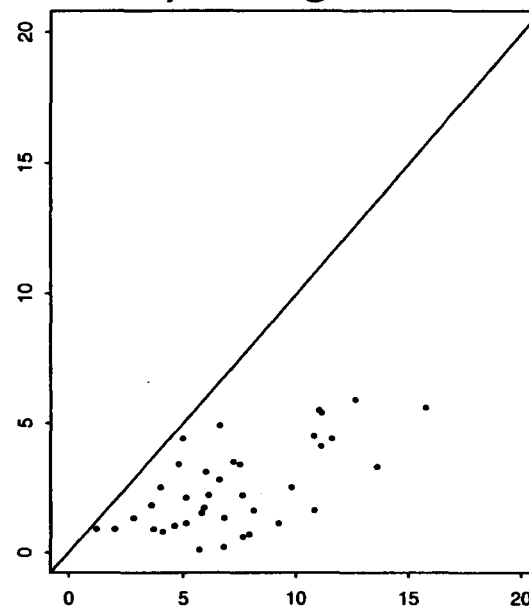
EDWR (Radiosonde) vs MOJH (Radar Wind Profiler), Height=1000M



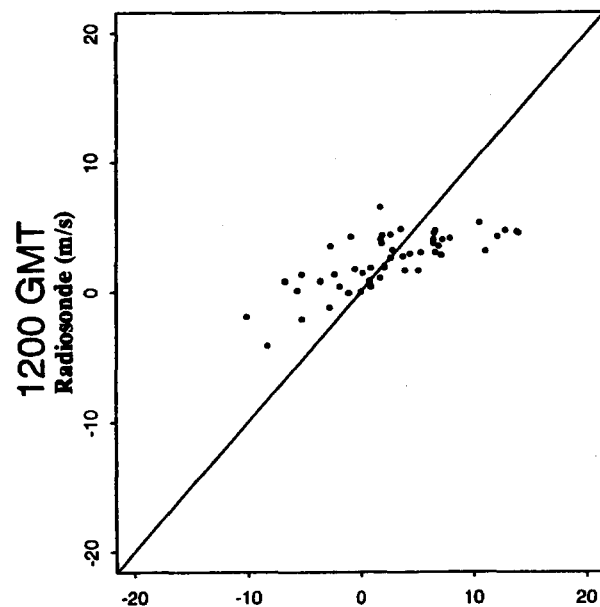
U-Component (m/s)



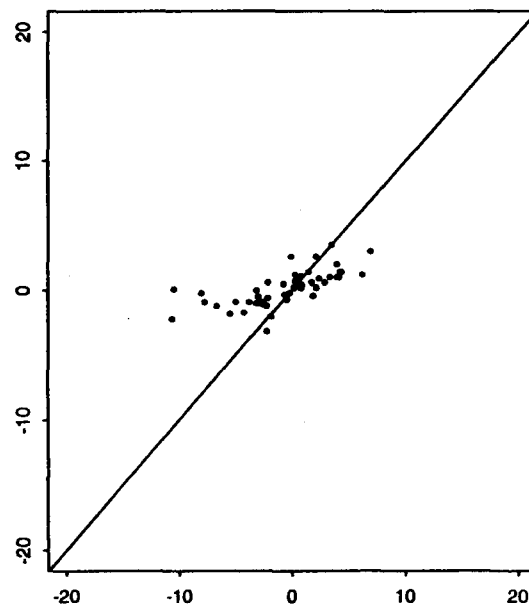
V-Component (m/s)



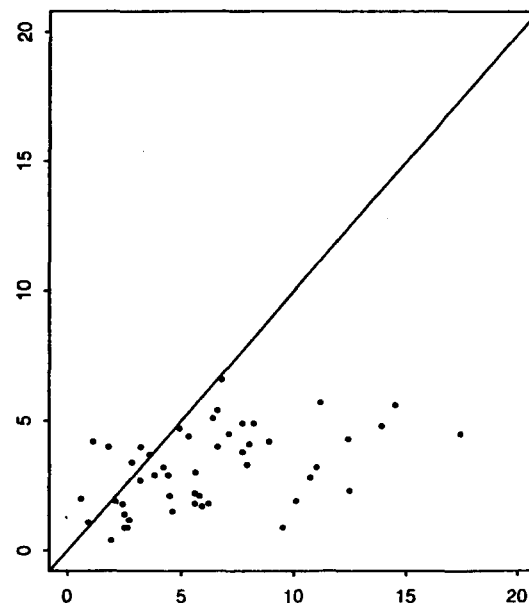
Wind Speed (m/s)



Radar Wind Profiler (m/s)

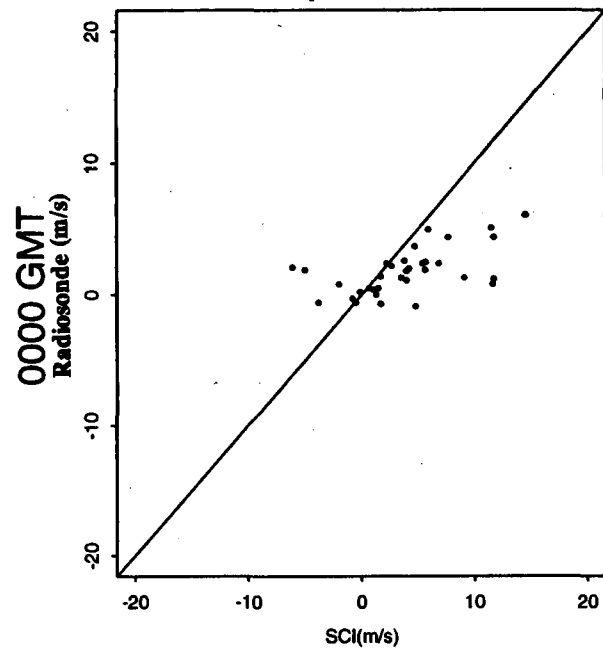


Radar Wind Profiler (m/s)

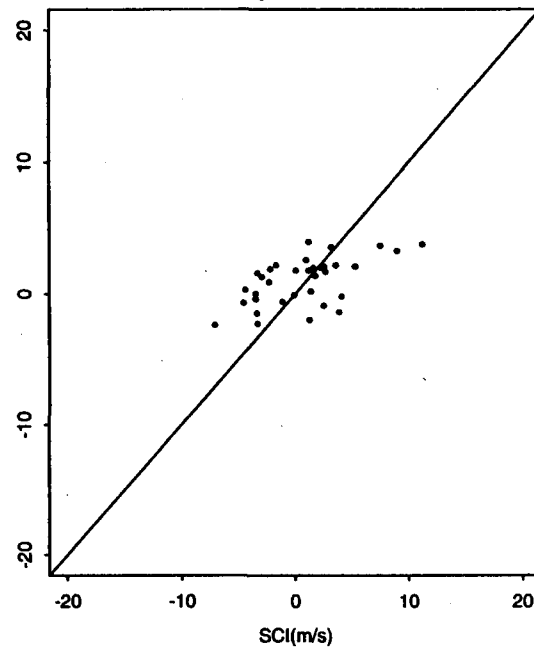


Radar Wind Profiler (m/s)

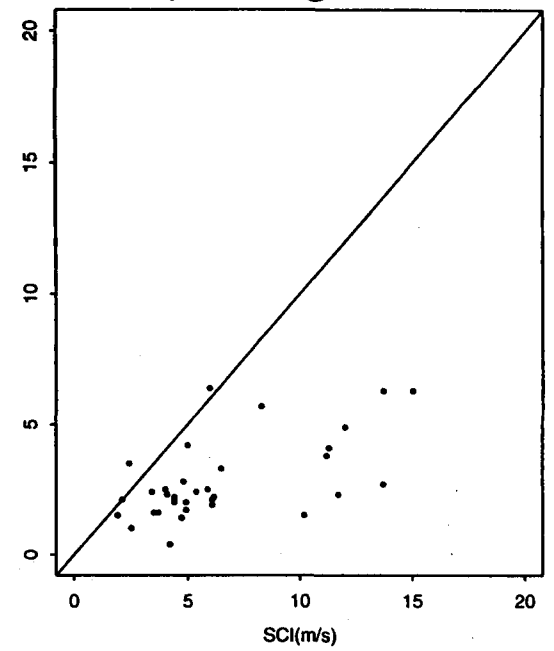
EDWR (Radiosonde) vs MOJH (Radar Wind Profiler), Height=2000M



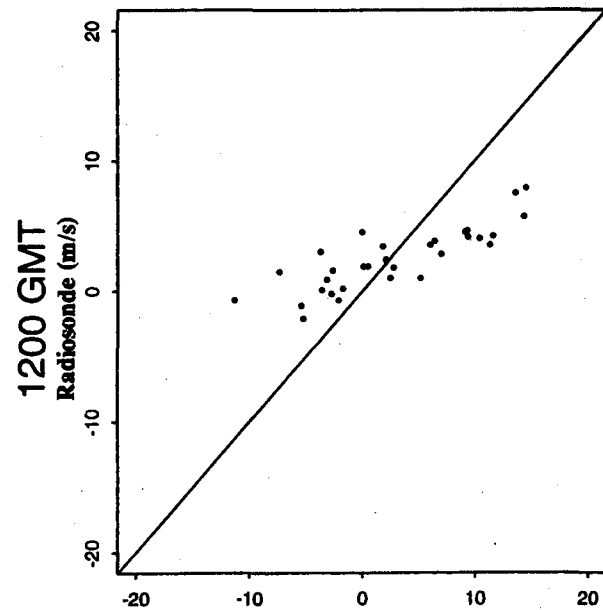
U-Component (m/s)



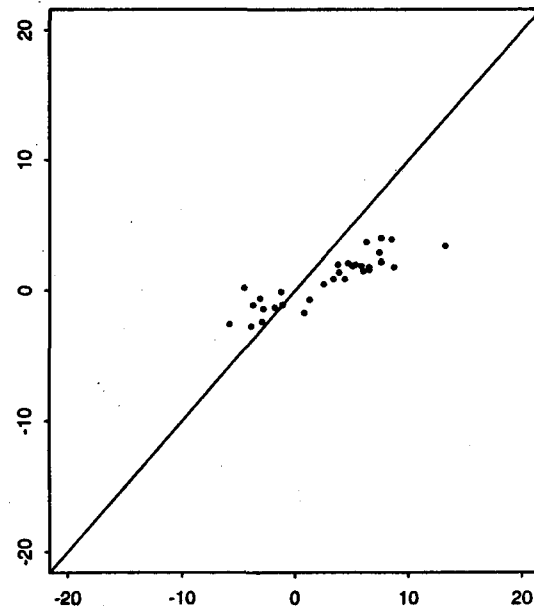
V-Component (m/s)



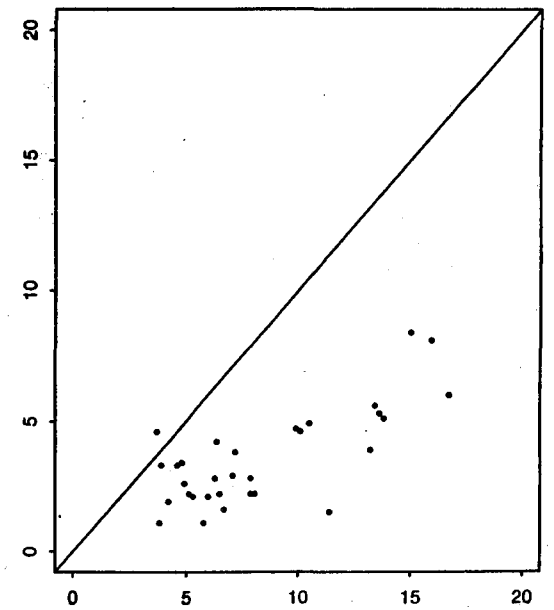
Wind Speed (m/s)



Radar Wind Profiler (m/s)



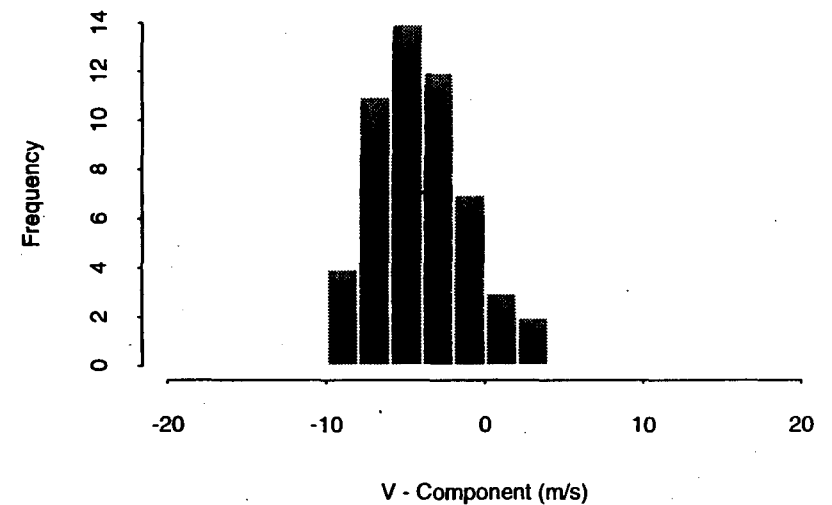
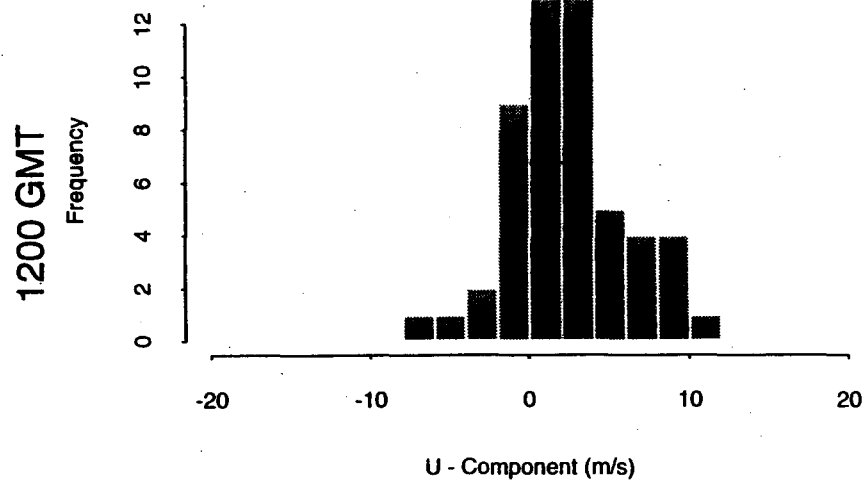
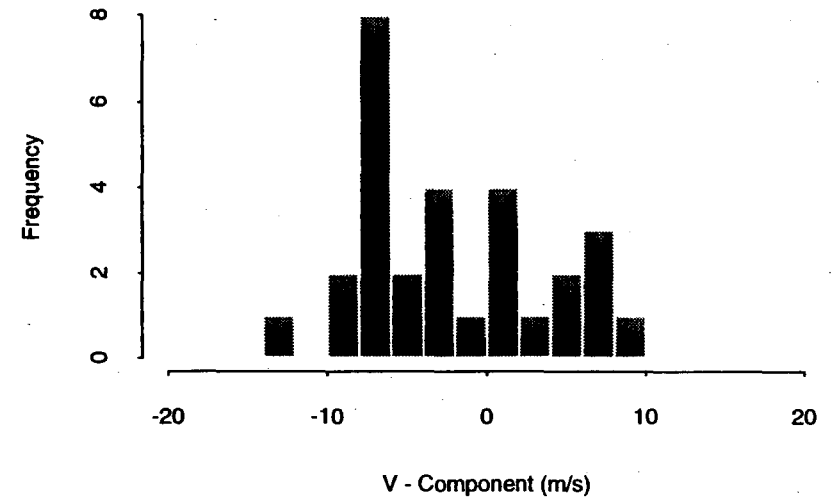
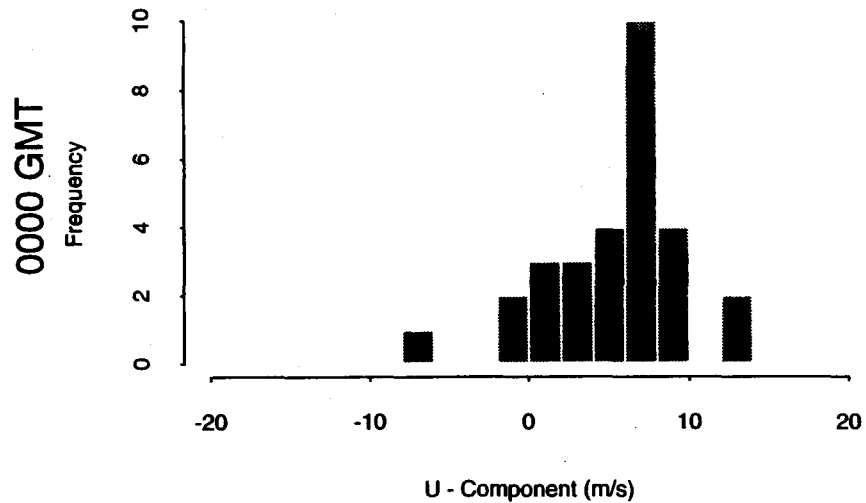
Radar Wind Profiler (m/s)



Radar Wind Profiler (m/s)

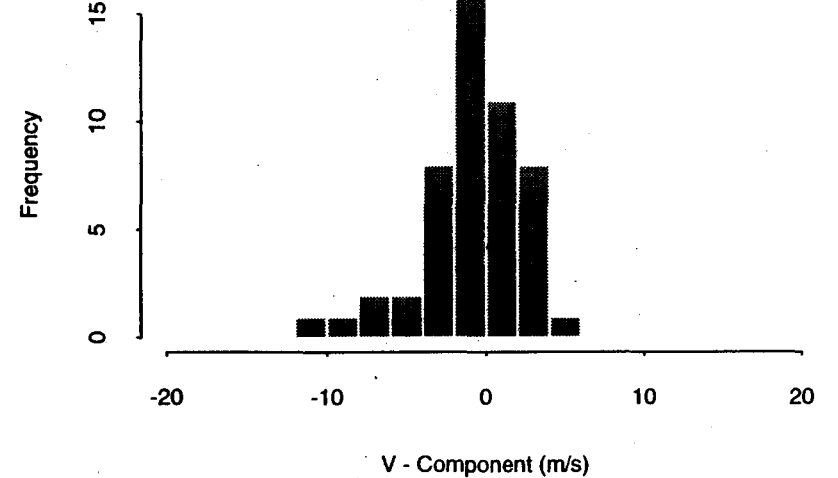
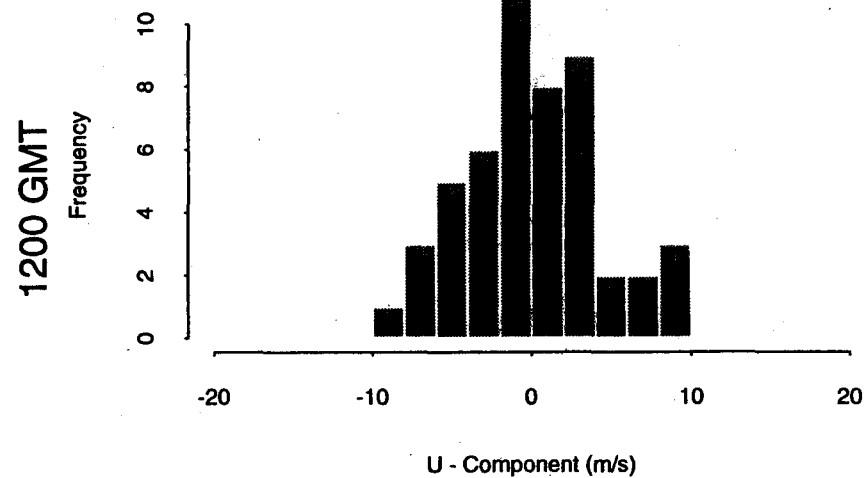
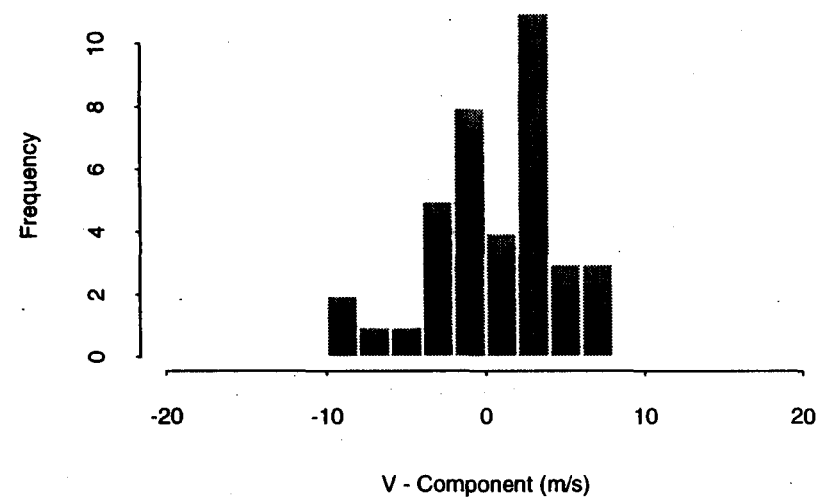
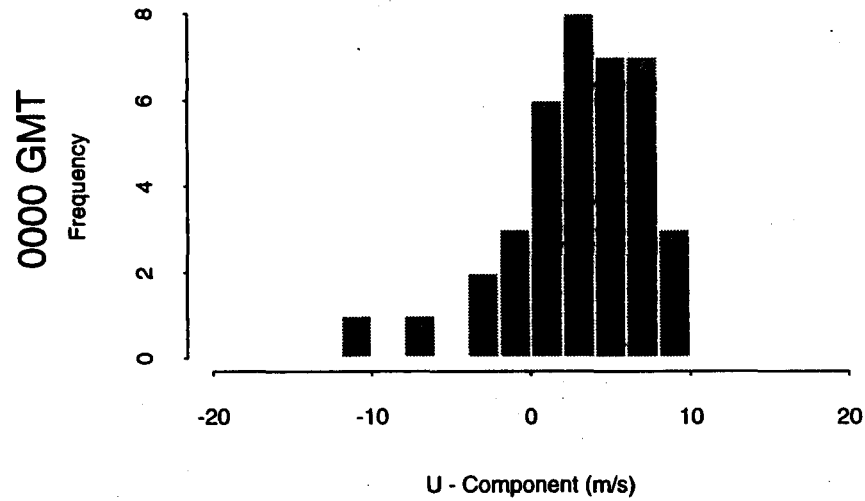
Frequency Distribution of Differences

MOJH (Radar Wind Profiler) - EDWR (Radiosonde), 300M



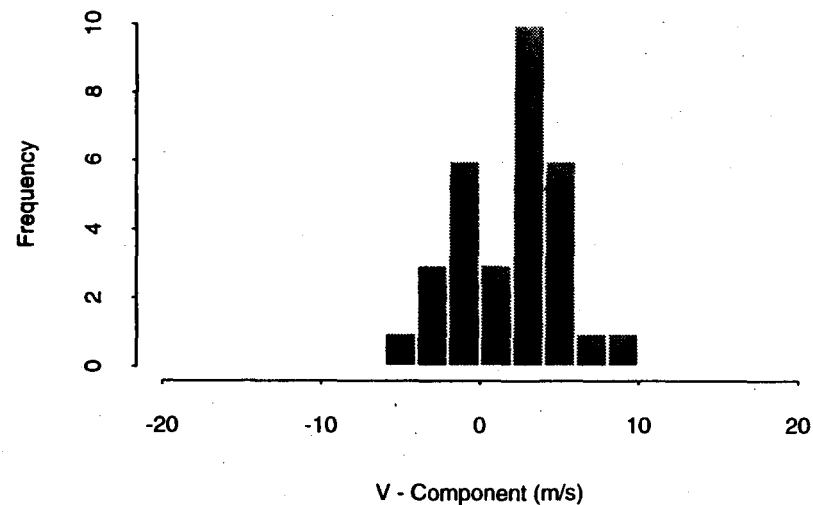
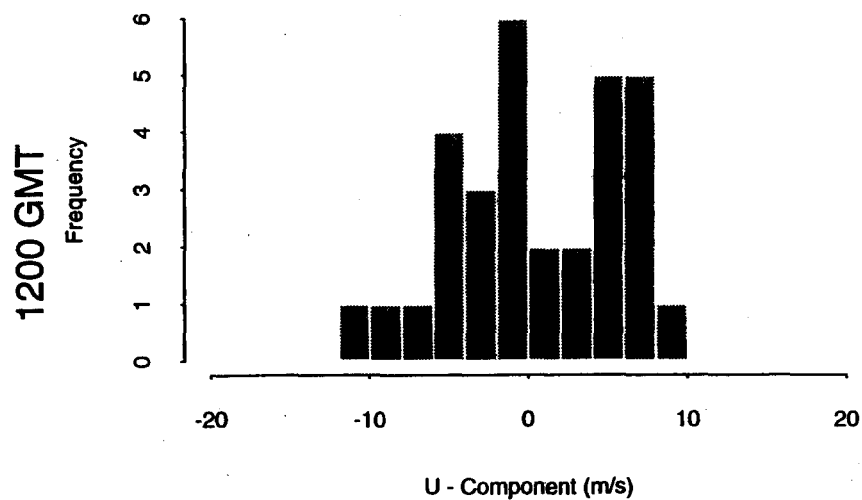
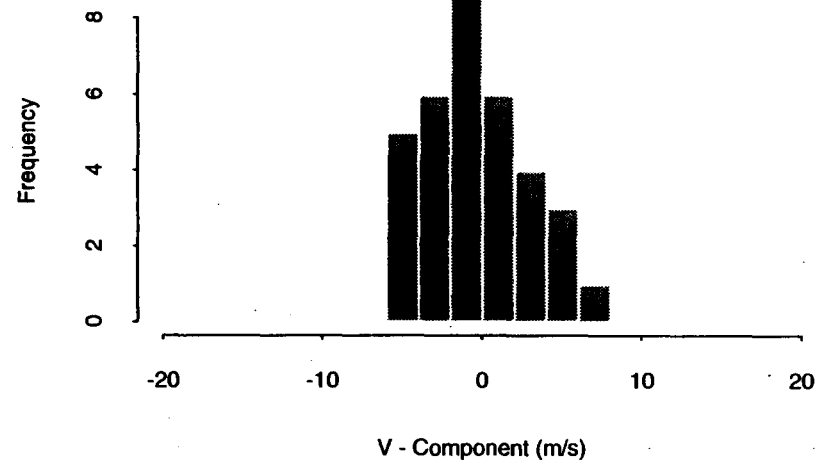
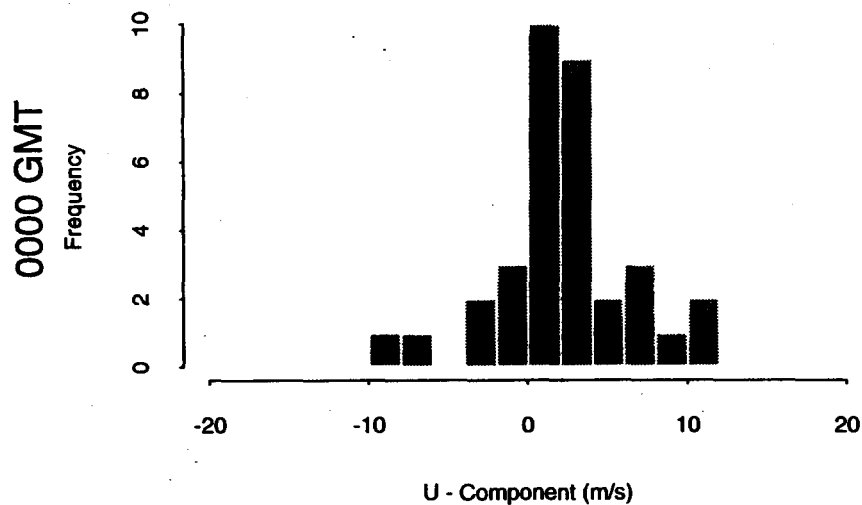
Frequency Distribution of Differences

MOJH (Radar Wind Profiler) - EDWR (Radiosonde), 1000M



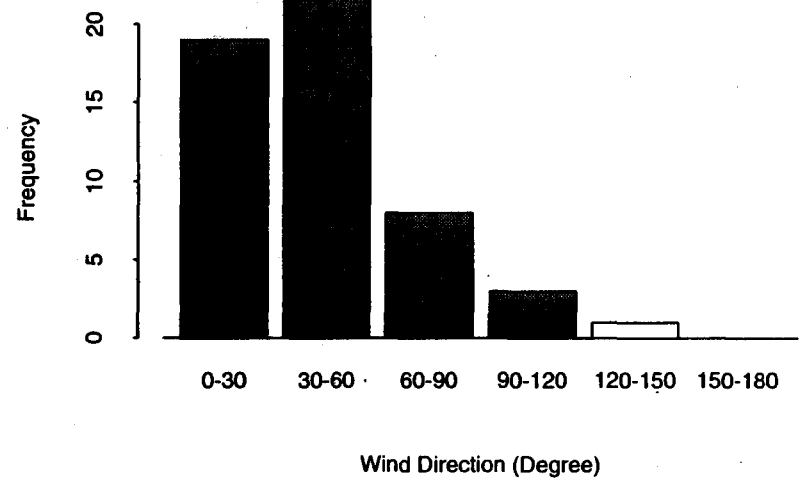
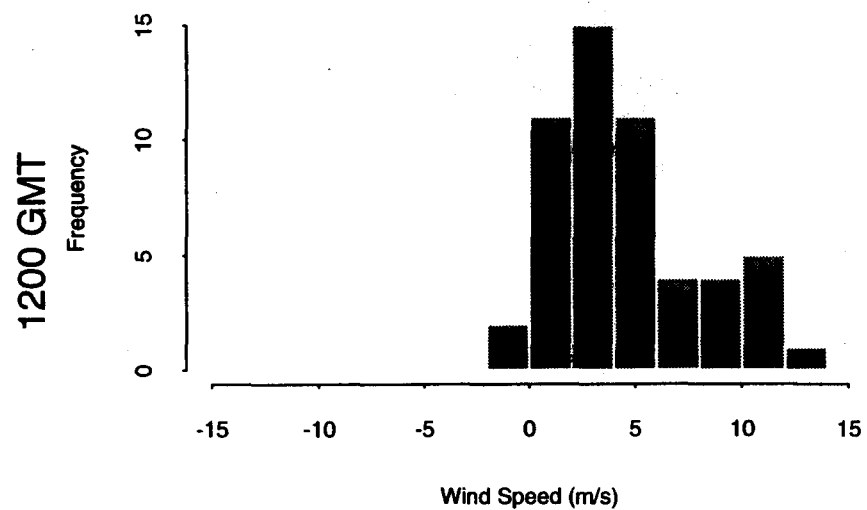
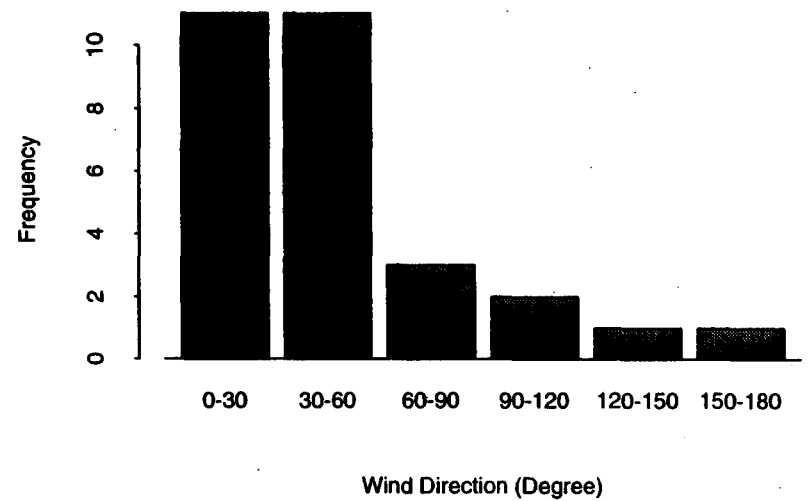
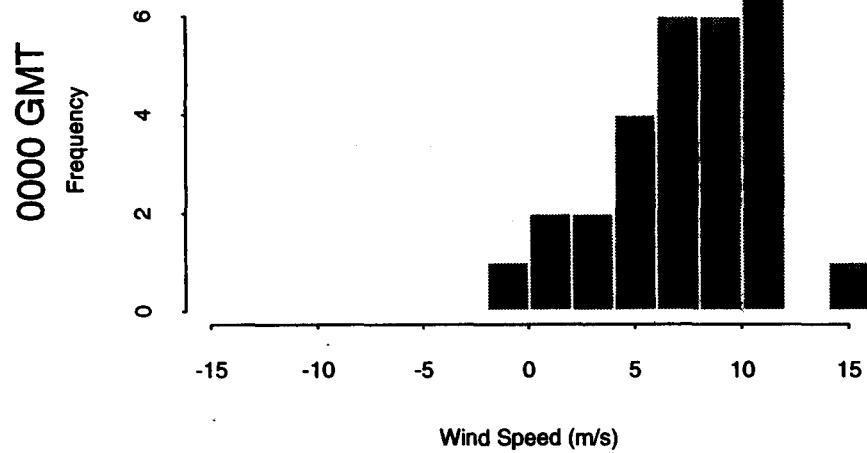
Frequency Distribution of Differences

MOJH (Radar Wind Profiler) - EDWR (Radiosonde), 2000M



Frequency Distribution of Differences

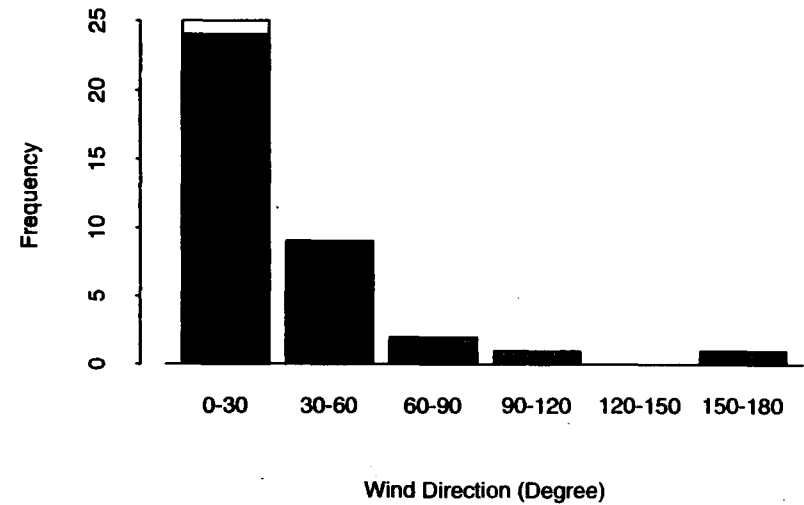
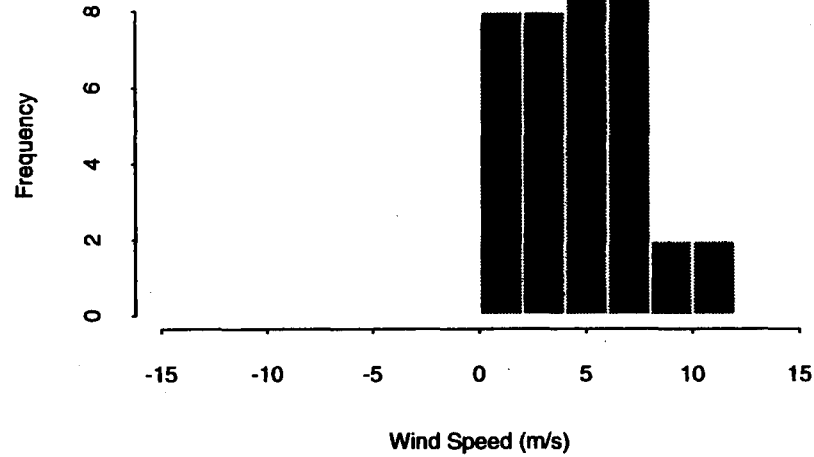
MOJH (Radar Wind Profiler) - EDWR (Radiosonde), 300M



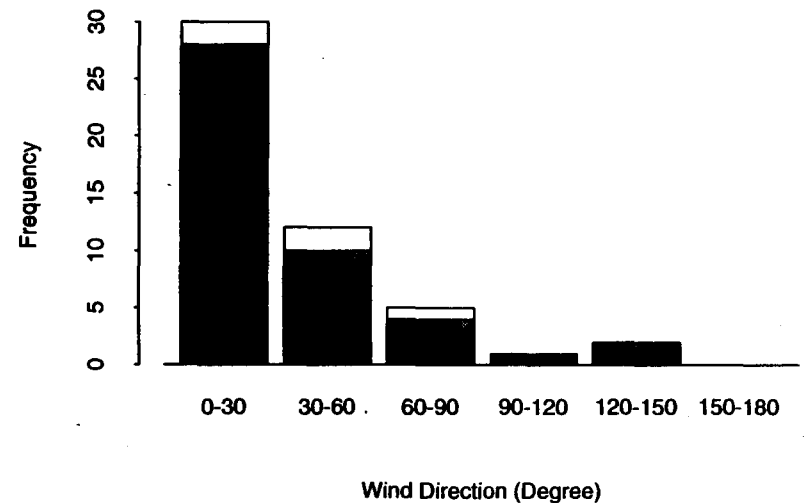
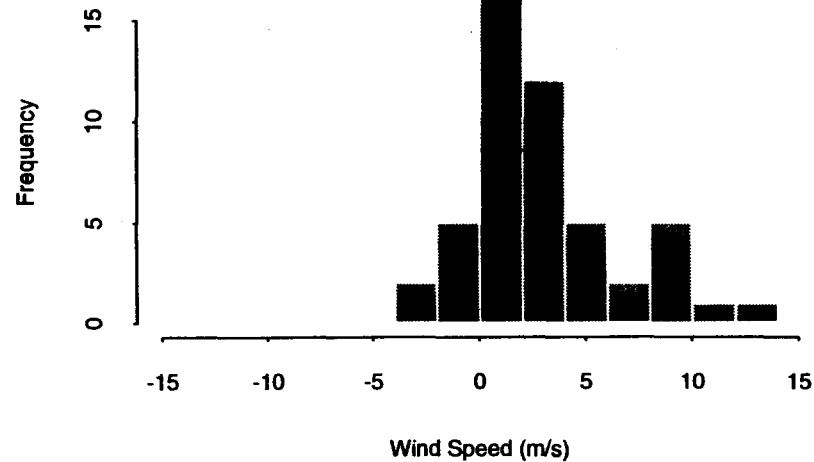
Frequency Distribution of Differences

MOJH (Radar Wind Profiler) - EDWR (Radiosonde), 1000M

0000 GMT

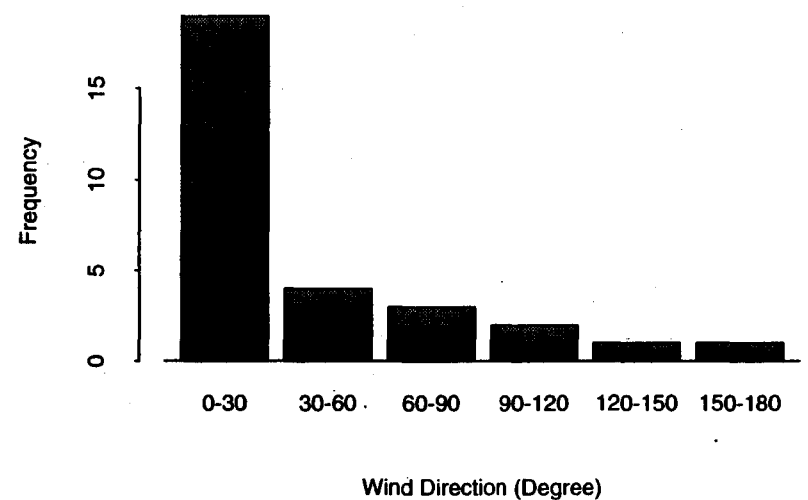
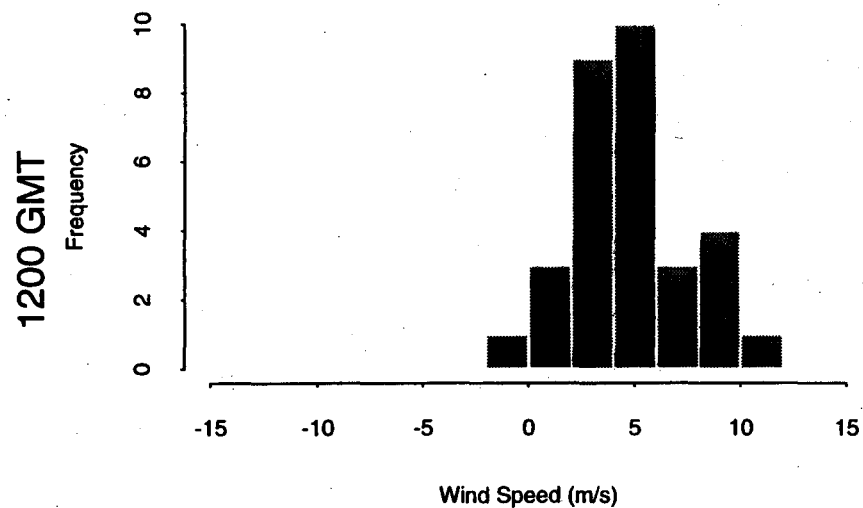
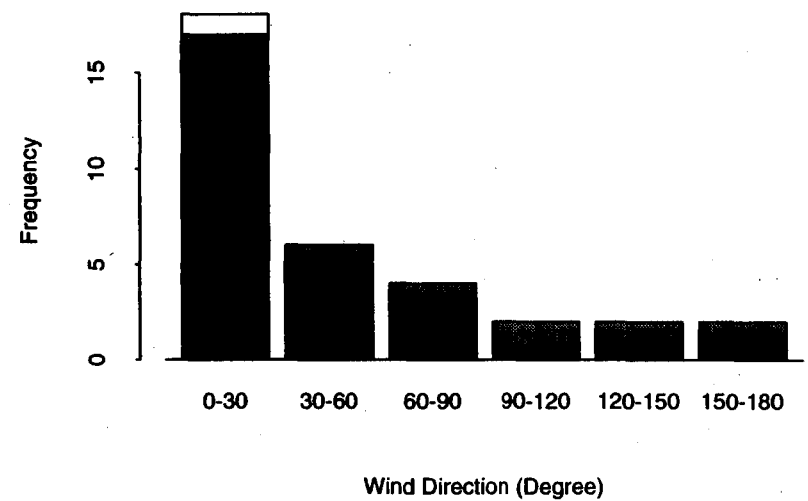
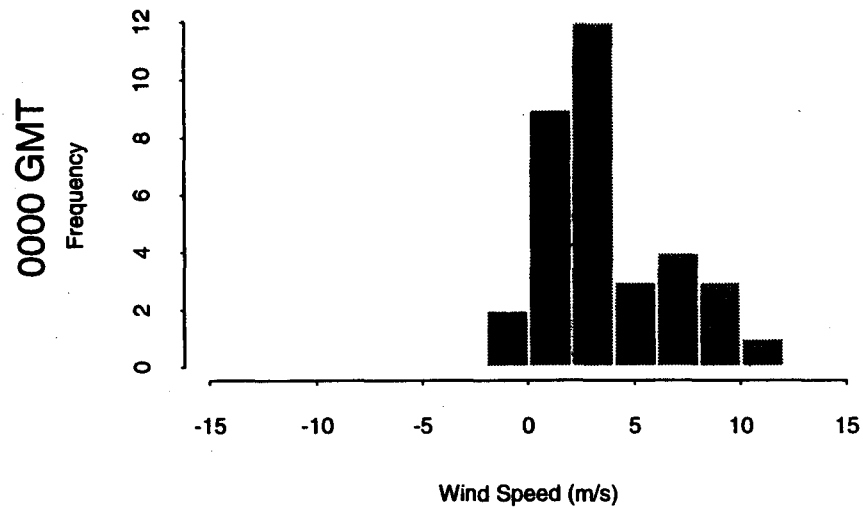


1200 GMT

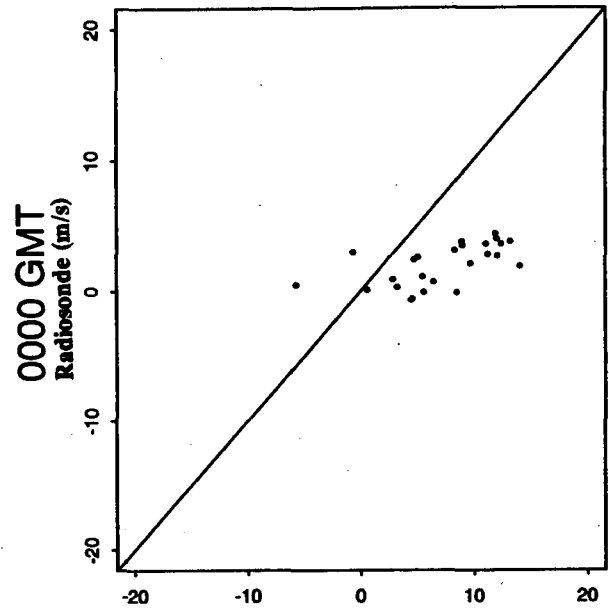


Frequency Distribution of Differences

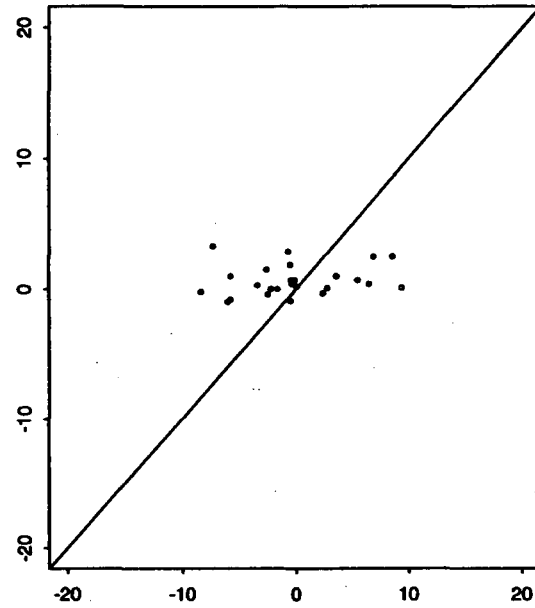
MOJH (Radar Wind Profiler) - EDWR (Radiosonde), 2000M



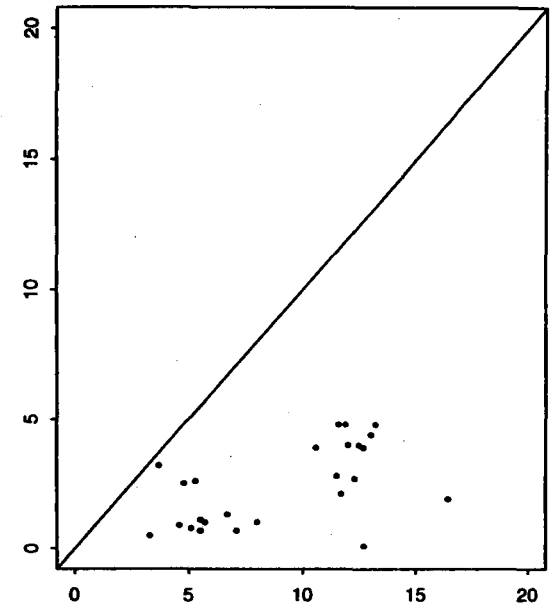
EDWR (Radiosonde) vs MOJL (Radar Wind Profiler), Height=300M



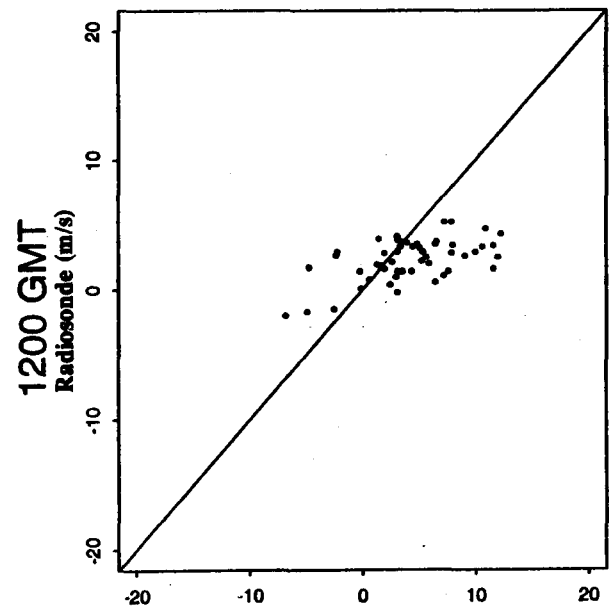
U-Component (m/s)



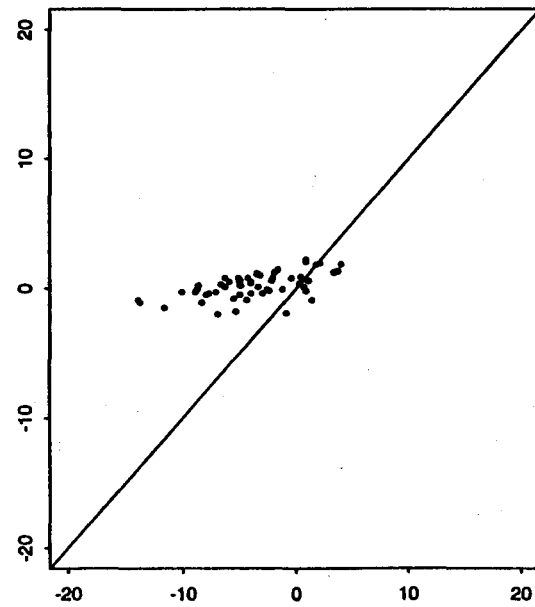
V-Component (m/s)



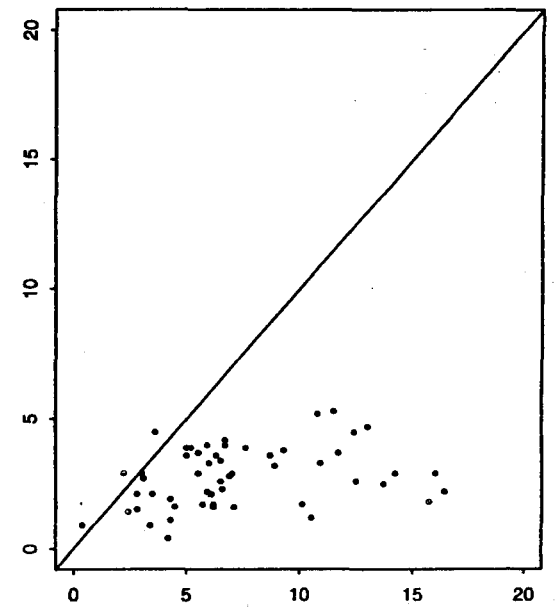
Wind Speed (m/s)



Radar Wind Profiler (m/s)

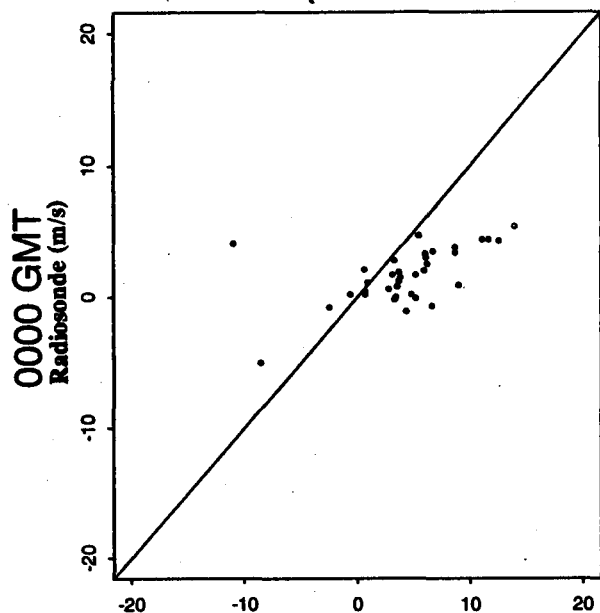


Radar Wind Profiler (m/s)

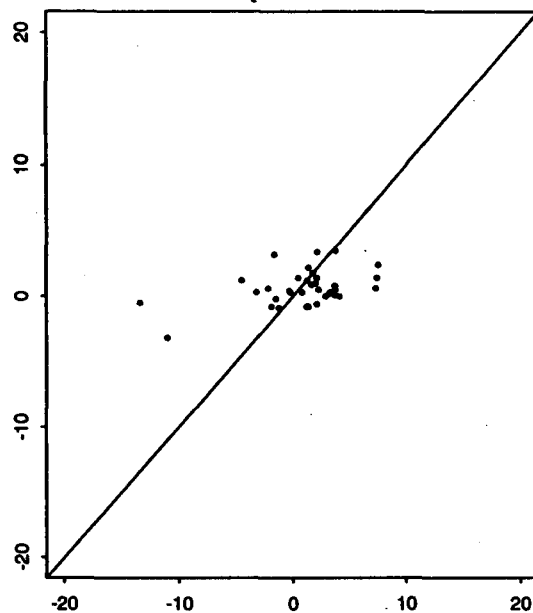


Radar Wind Profiler (m/s)

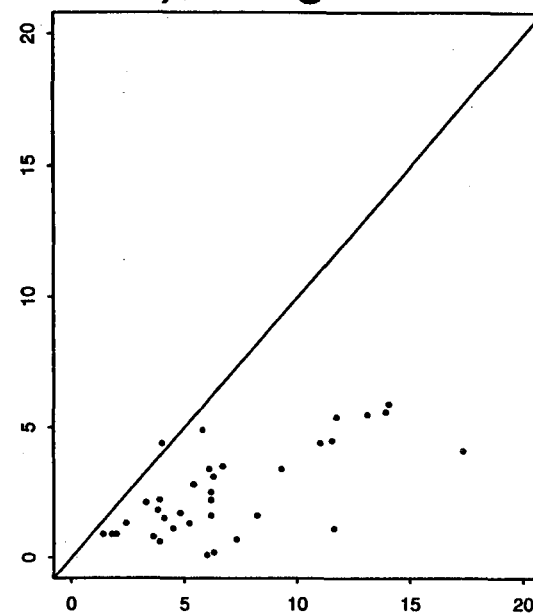
EDWR (Radiosonde) vs MOJL (Radar Wind Profiler), Height=1000M



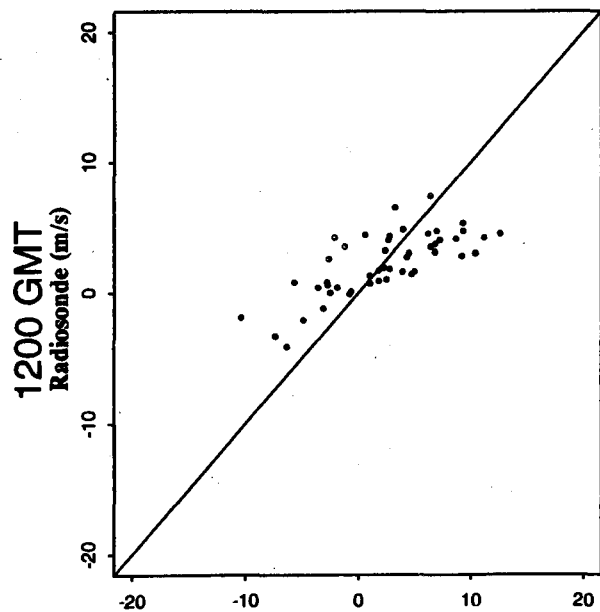
U-Component (m/s)



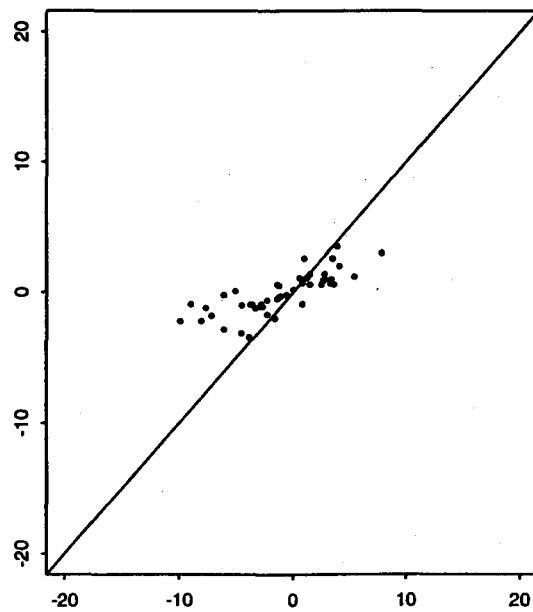
V-Component (m/s)



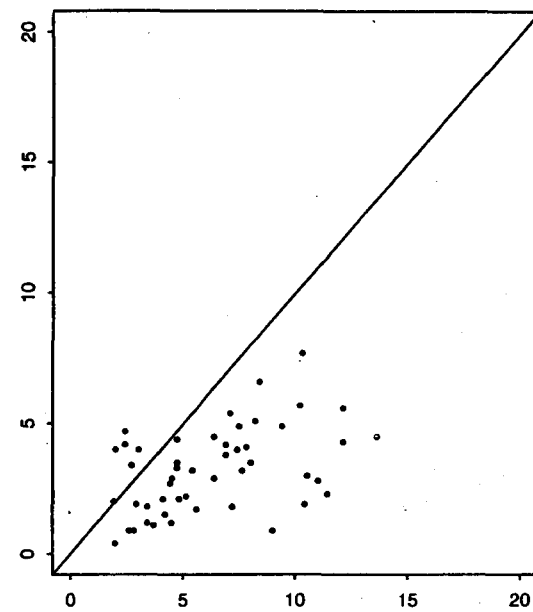
Wind Speed (m/s)



Radar Wind Profiler (m/s)

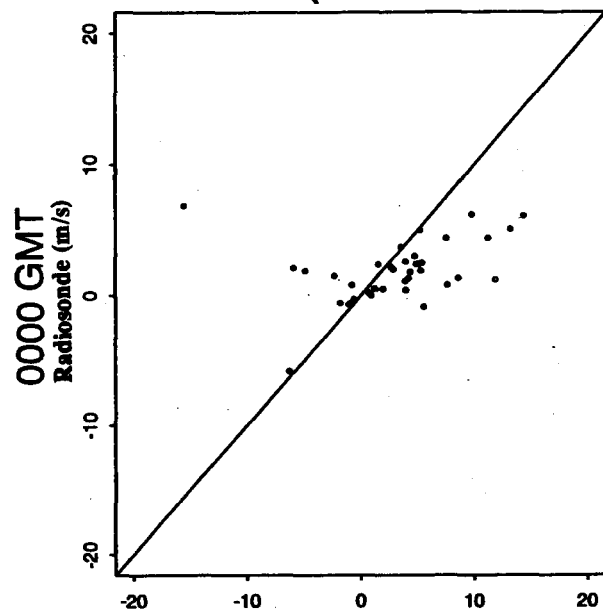


Radar Wind Profiler (m/s)

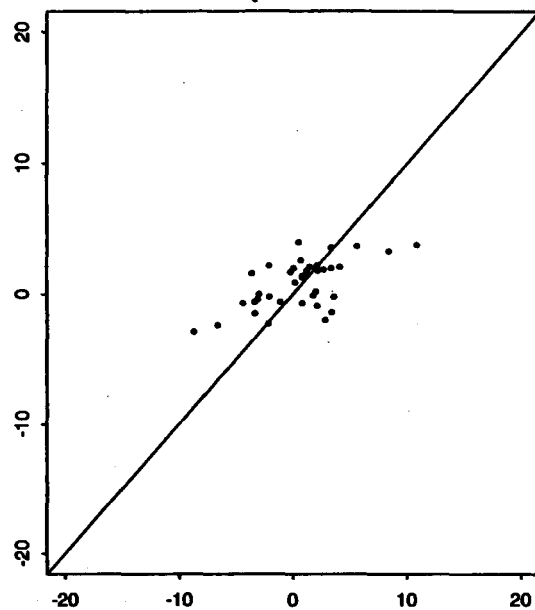


Radar Wind Profiler (m/s)

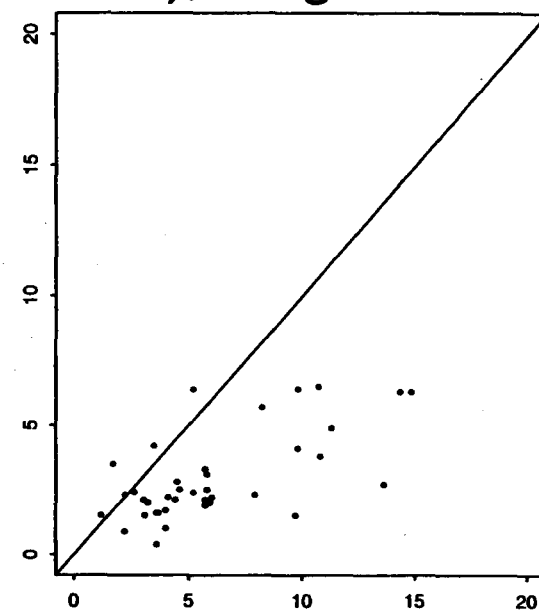
EDWR (Radiosonde) vs MOJL (Radar Wind Profiler), Height=2000M



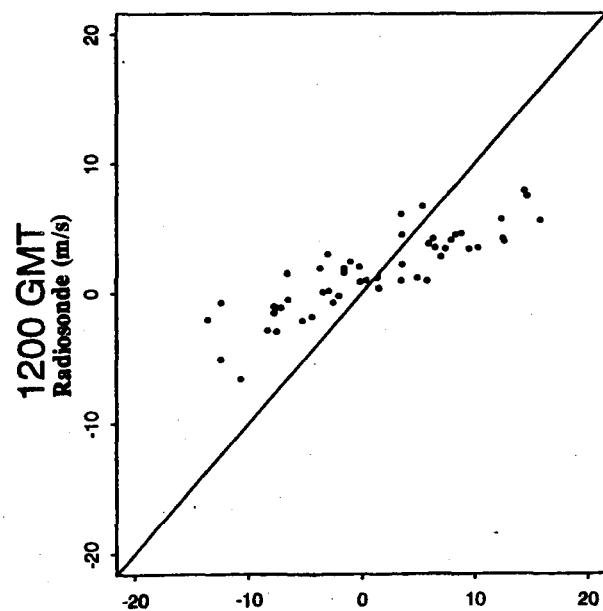
U-Component (m/s)



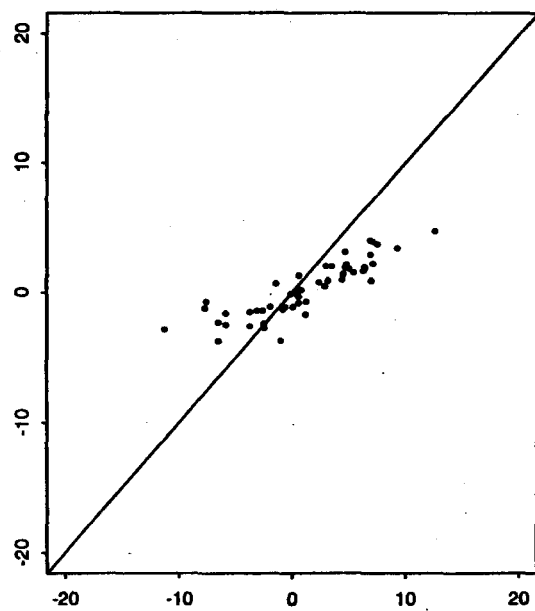
V-Component (m/s)



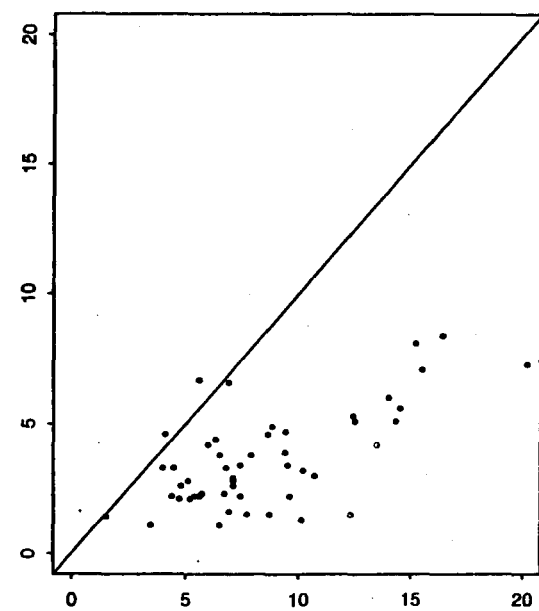
Wind Speed (m/s)



Radar Wind Profiler (m/s)



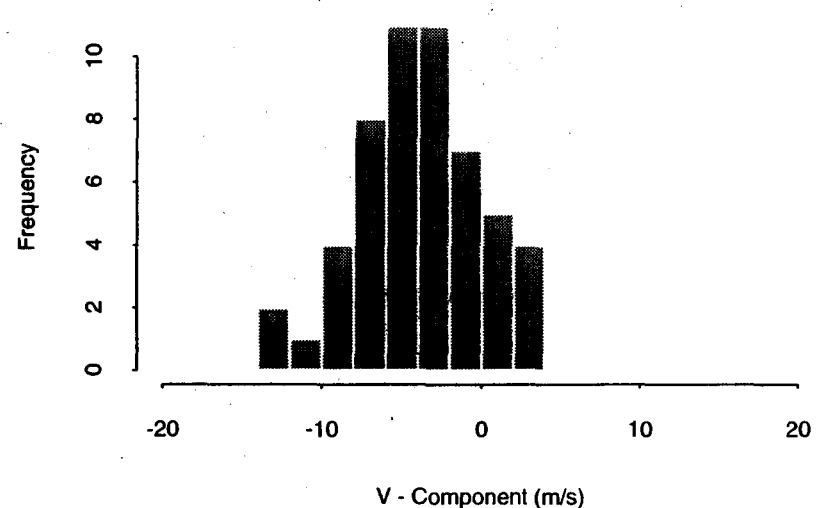
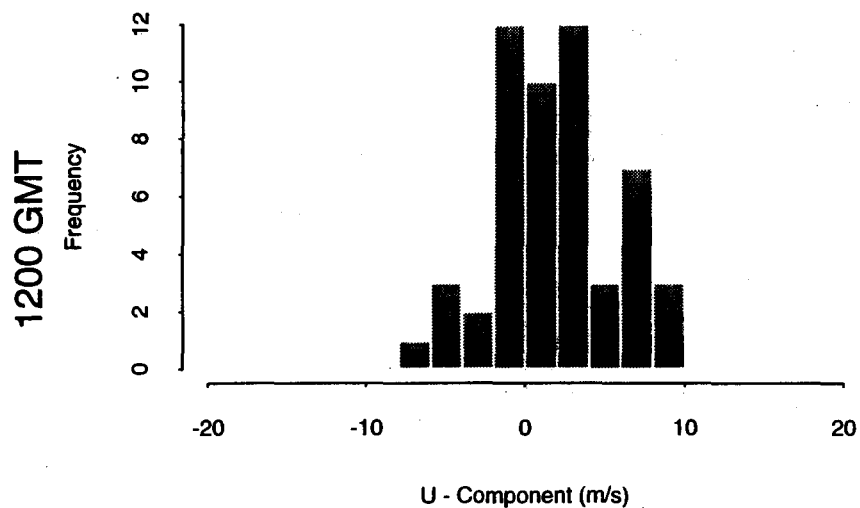
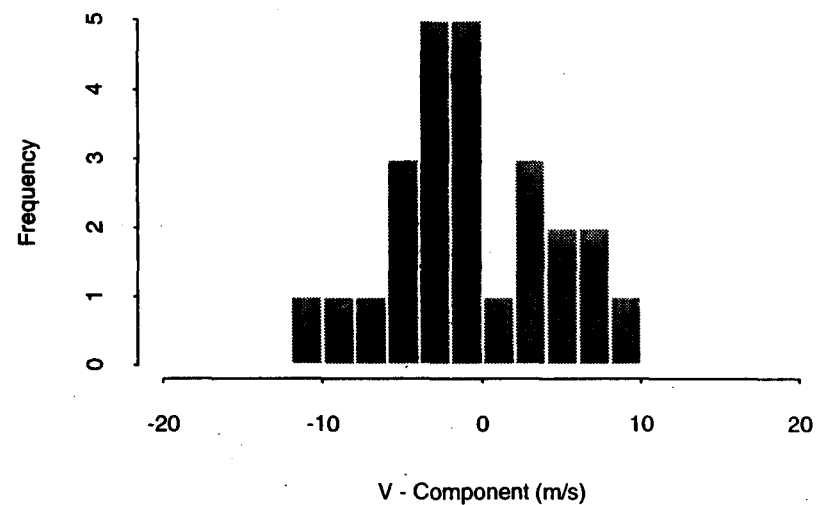
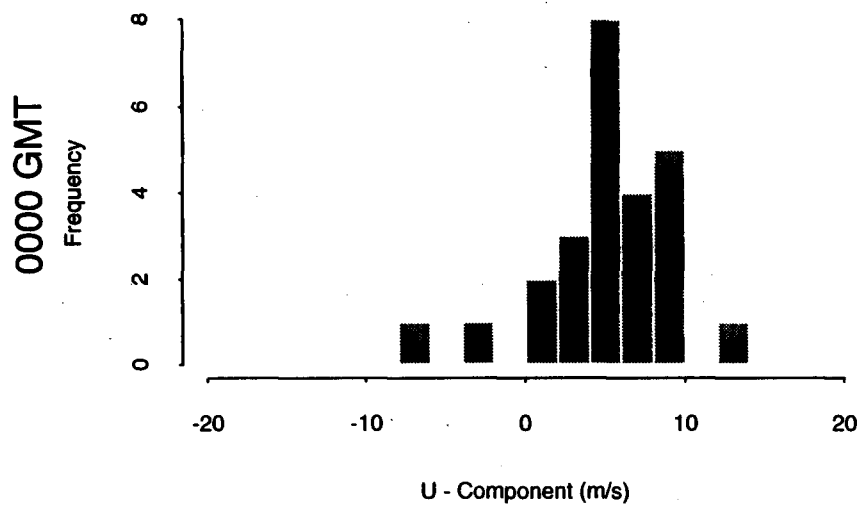
Radar Wind Profiler (m/s)



Radar Wind Profiler (m/s)

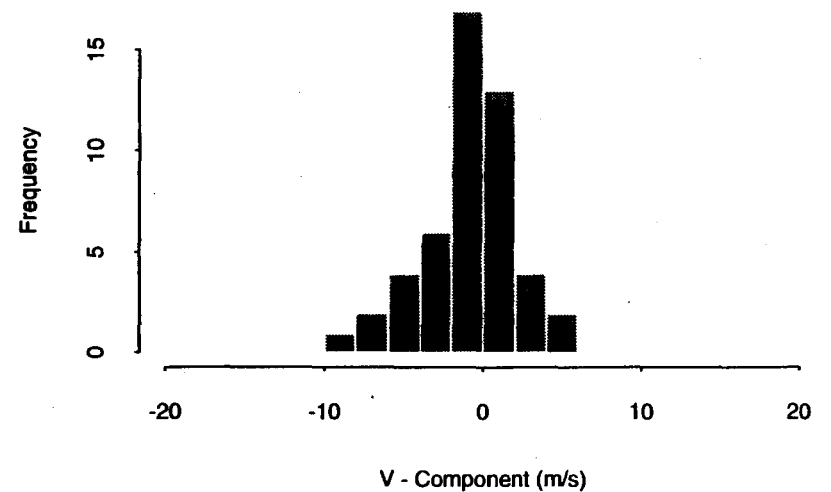
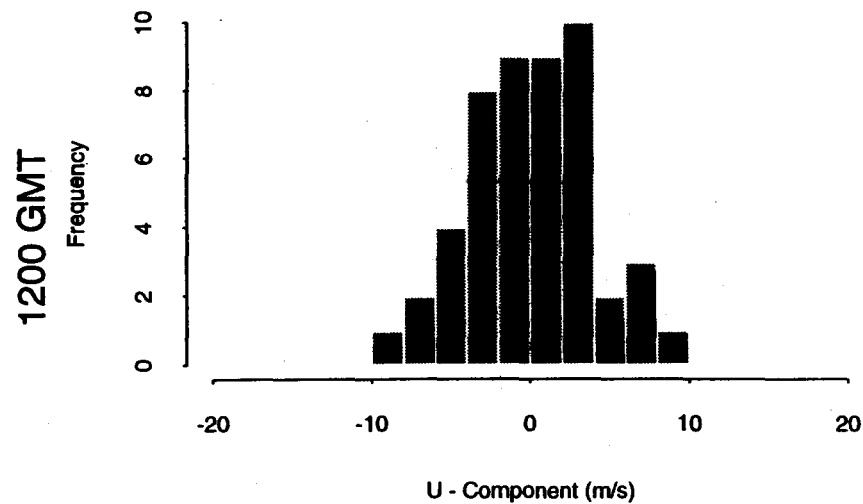
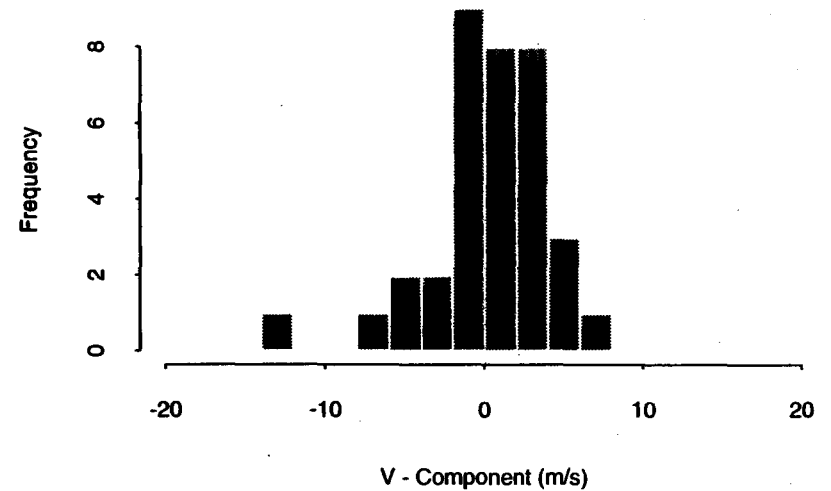
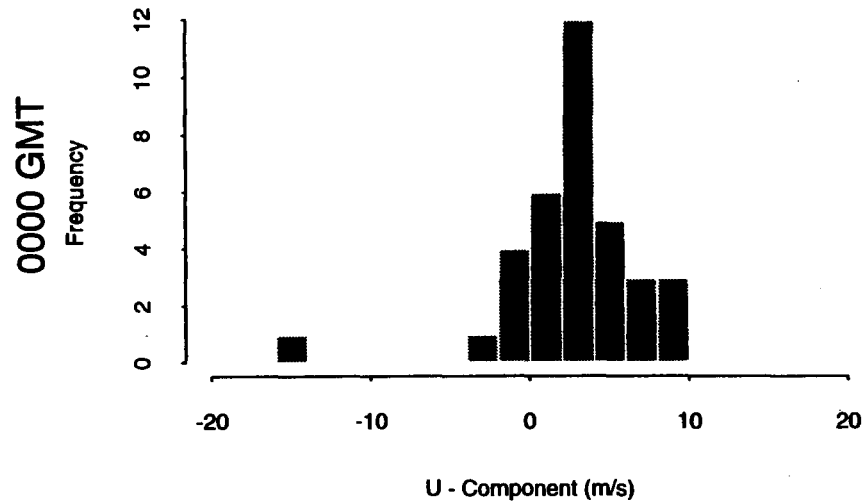
Frequency Distribution of Differences

MOJL (Radar Wind Profiler) - EDWR (Radiosonde), 300M



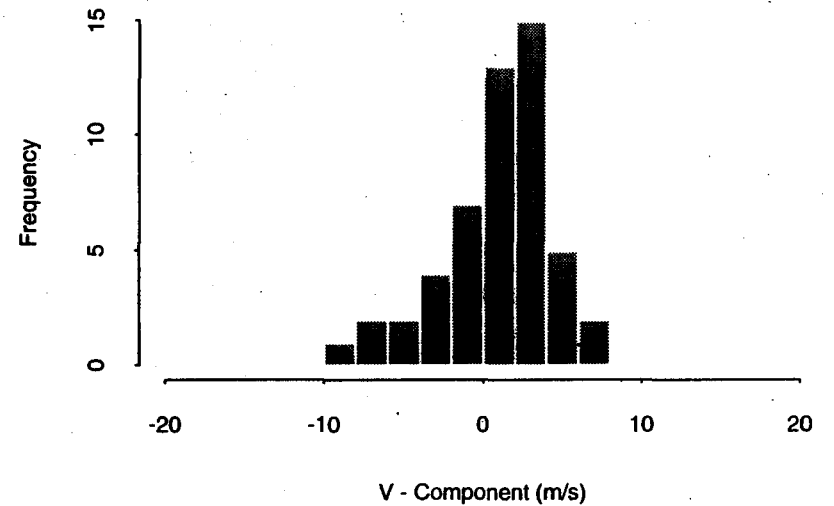
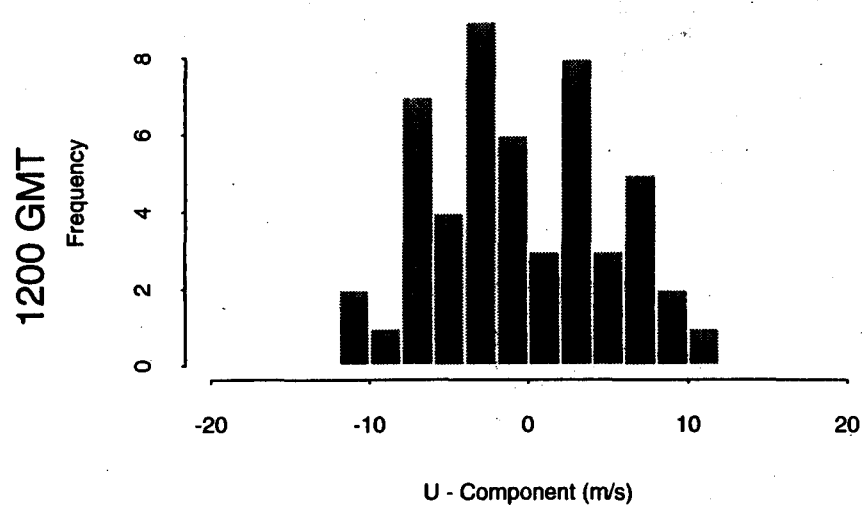
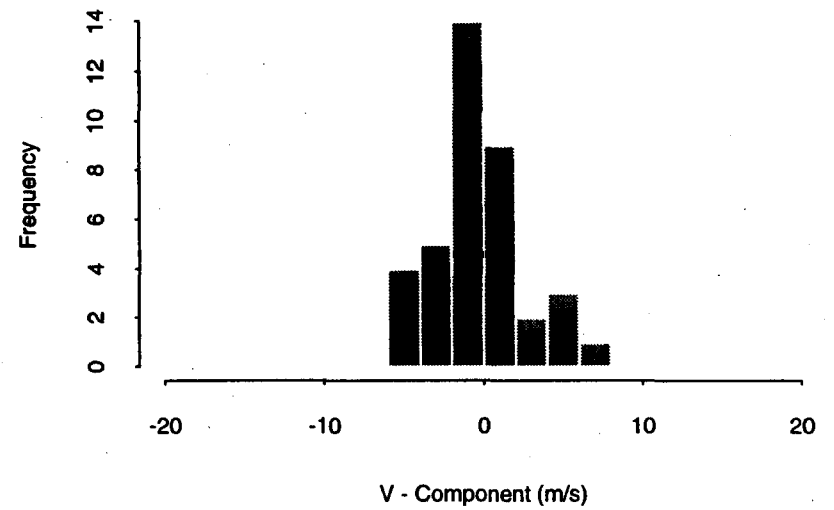
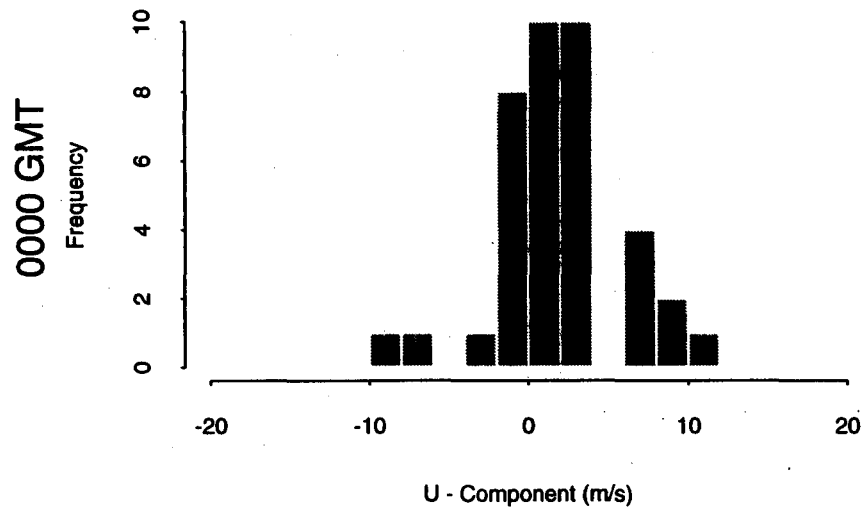
Frequency Distribution of Differences

MOJL (Radar Wind Profiler) - EDWR (Radiosonde), 1000M



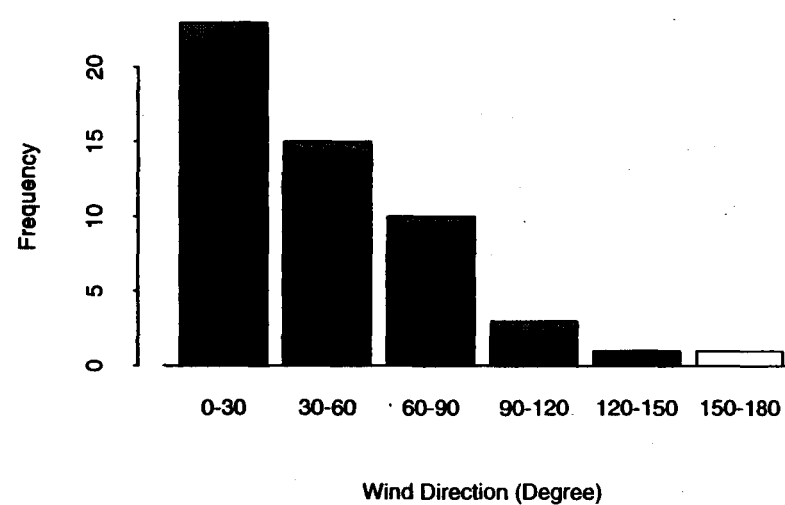
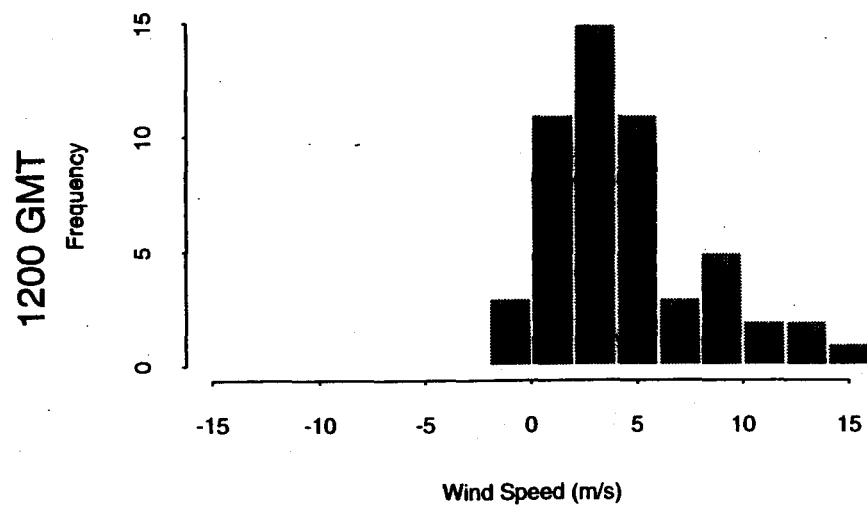
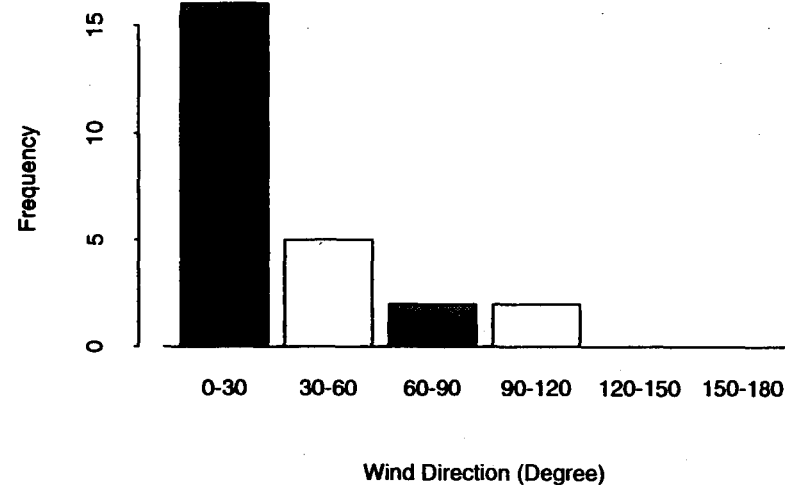
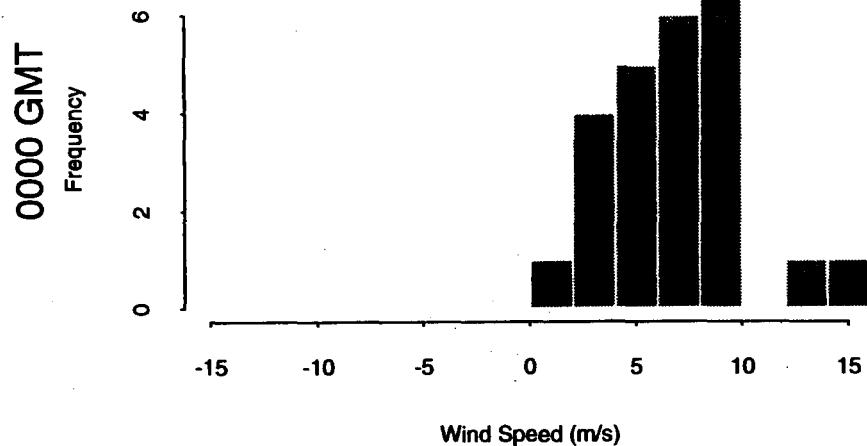
Frequency Distribution of Differences

MOJL (Radar Wind Profiler) - EDWR (Radiosonde), 2000M



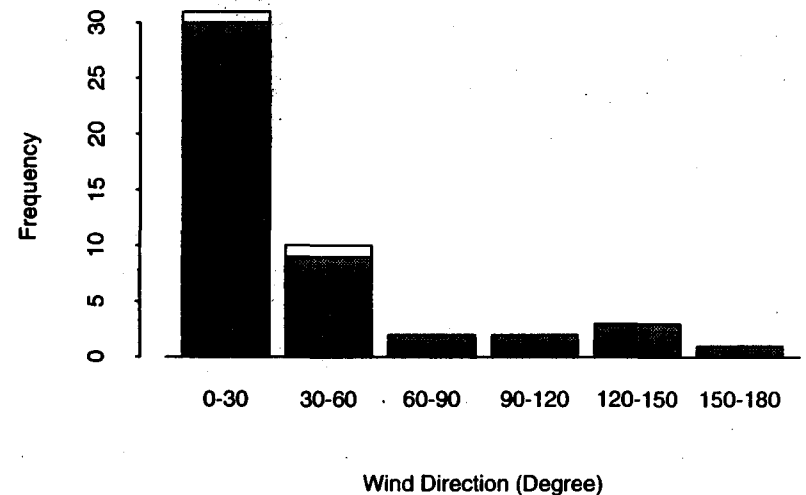
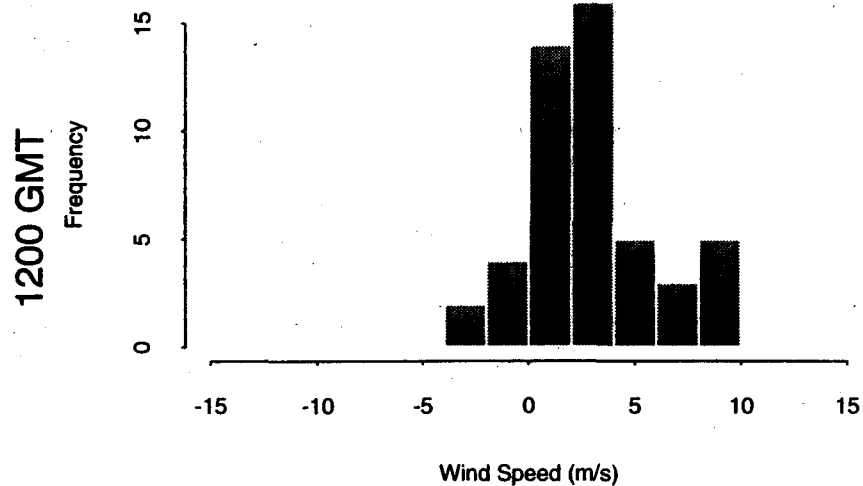
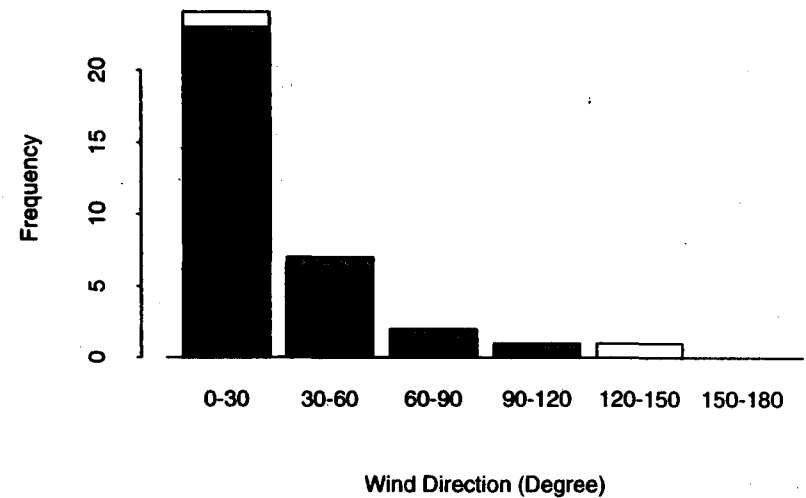
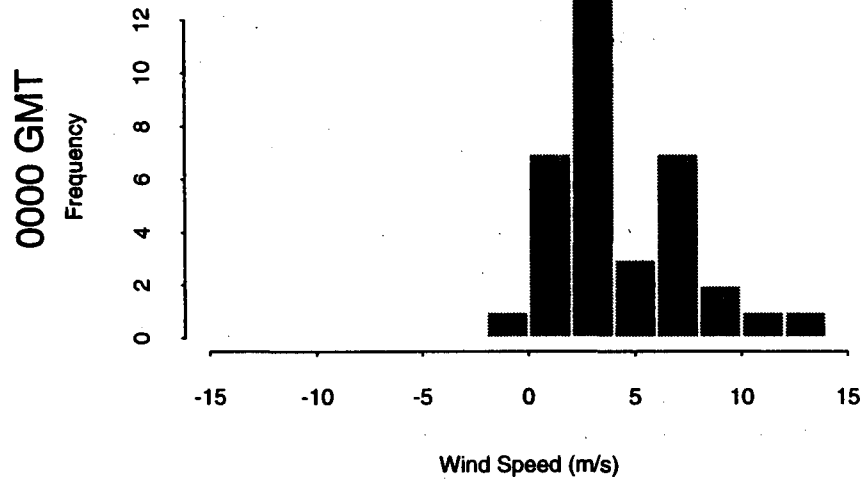
Frequency Distribution of Differences

MOJL (Radar Wind Profiler) - EDWR (Radiosonde), 300M



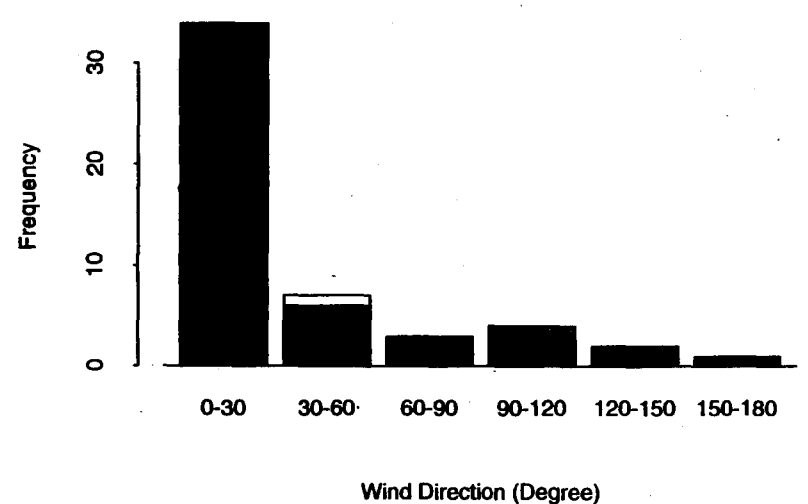
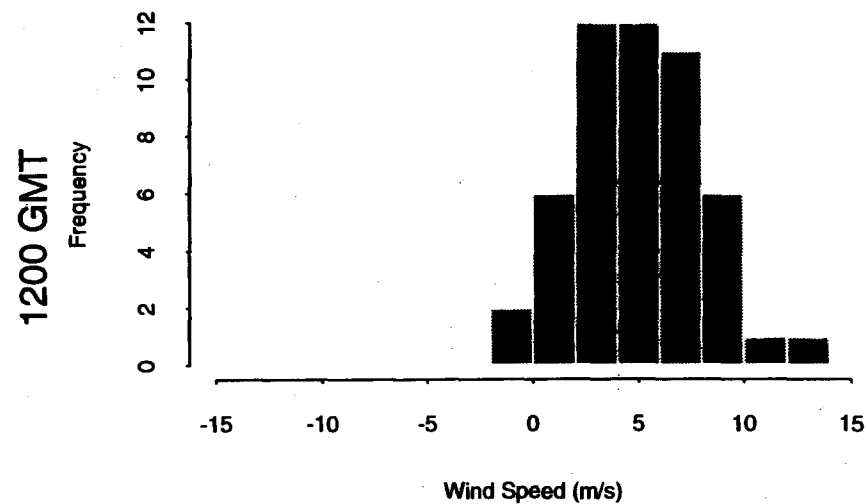
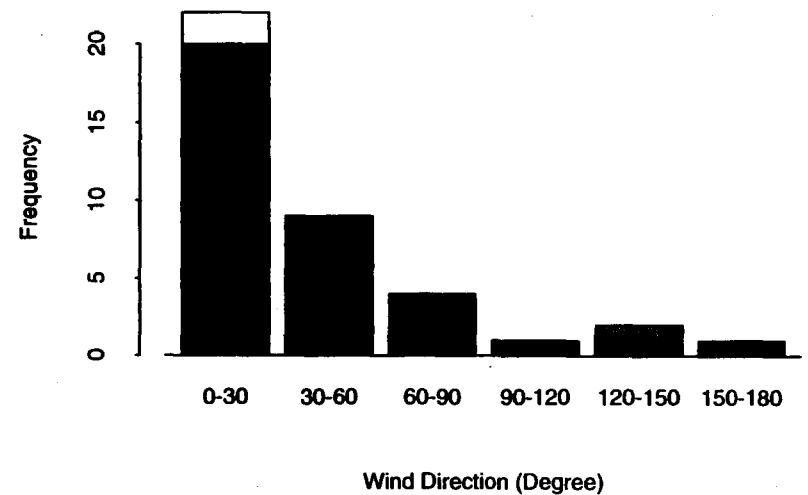
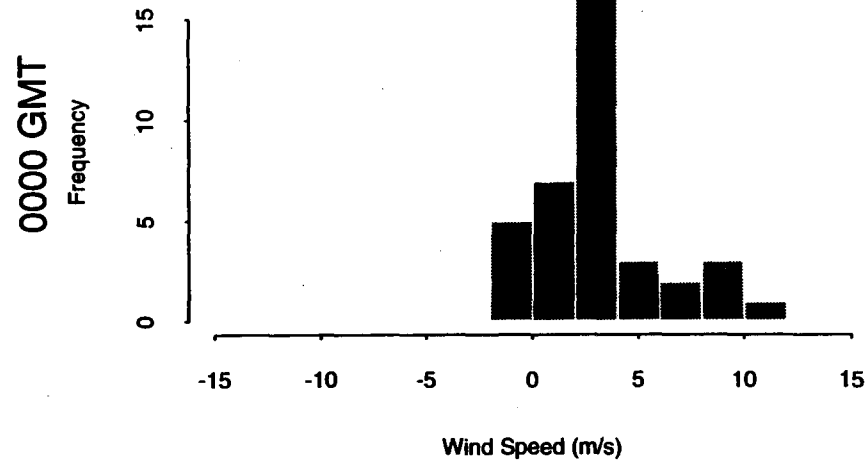
Frequency Distribution of Differences

MOJL (Radar Wind Profiler) - EDWR (Radiosonde), 1000M



Frequency Distribution of Differences

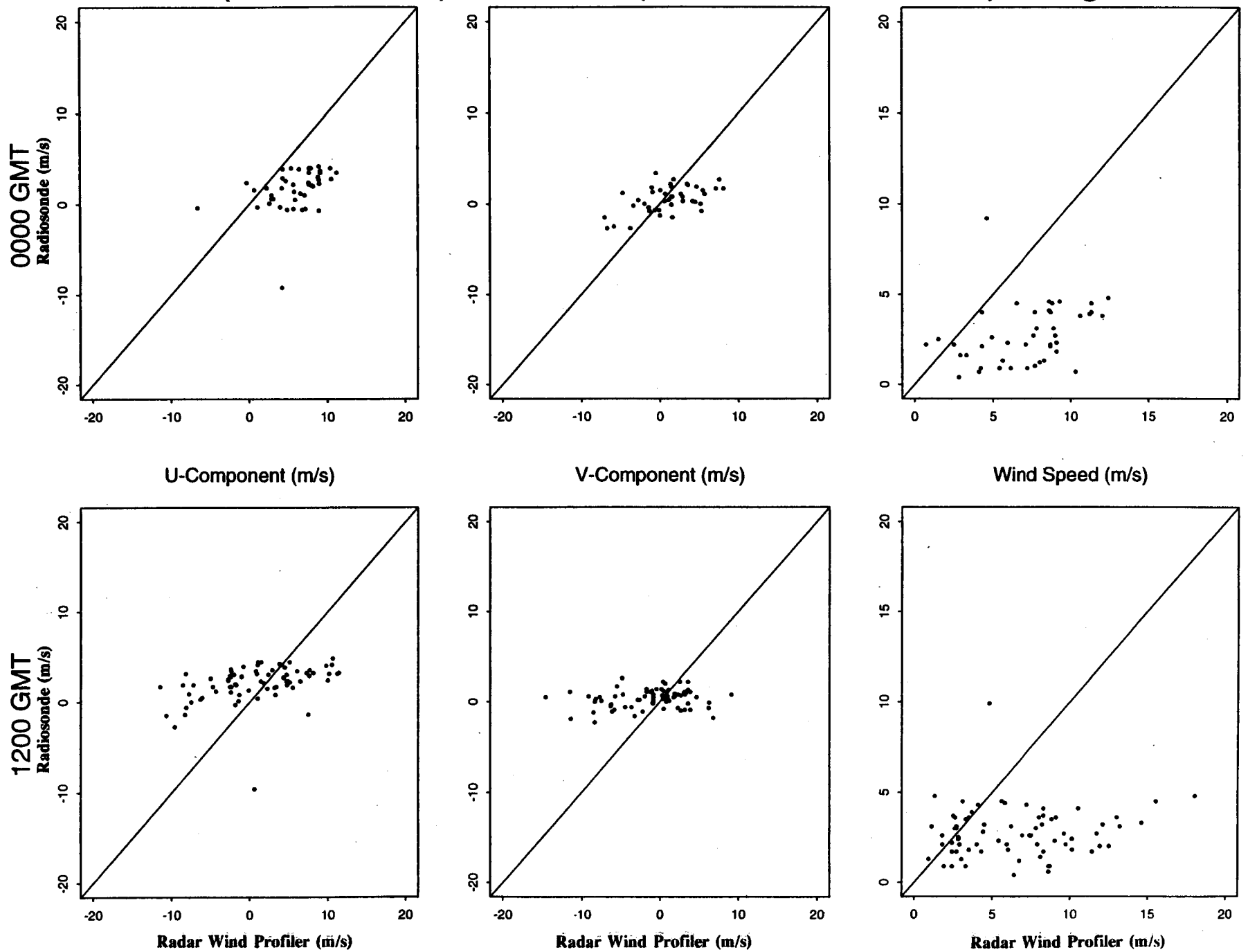
MOJL (Radar Wind Profiler) - EDWR (Radiosonde), 2000M



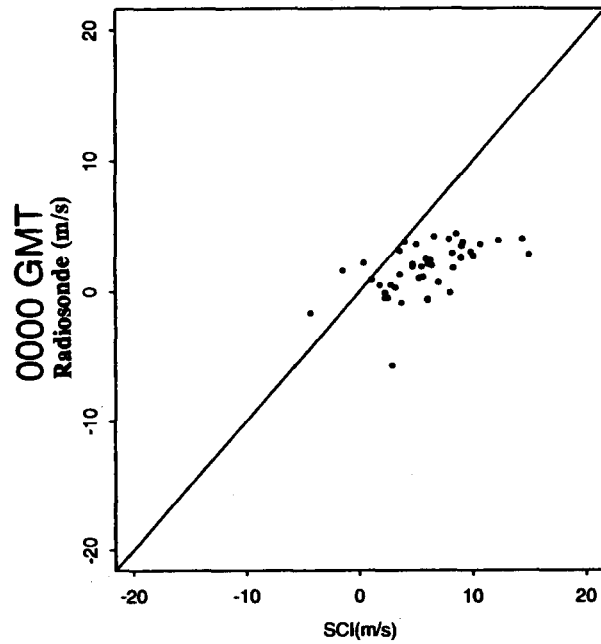
Appendix A3

**SCATTER PLOTS OF U AND V WIND COMPONENTS AND WIND SPEEDS AND
HISTOGRAMS OF DIFFERENCES BETWEEN U AND V WIND COMPONENT,
WIND SPEED, AND WIND DIRECTION DATA FOR UNEDITED RADAR WIND
PROFILER (RWP) WIND DATA FOR THE MOJAVE (MOJ) PROFILER SITE
WITH THE EDWARDS RADIOSONDE DATA**

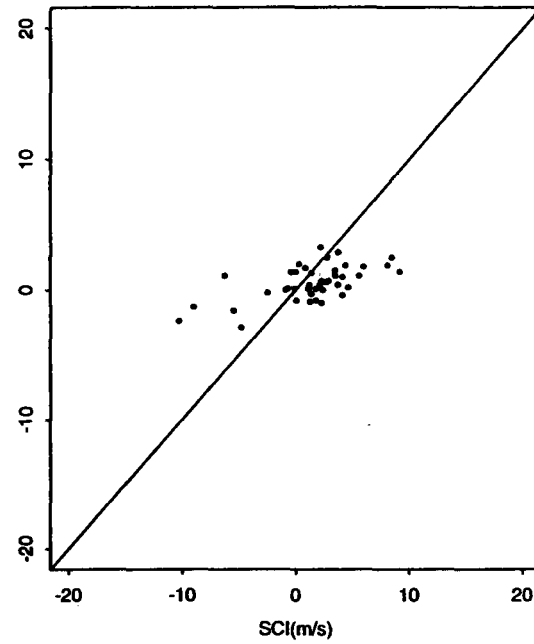
EDWR (Radiosonde) vs MOJR (Radar Wind Profiler), Height=100M



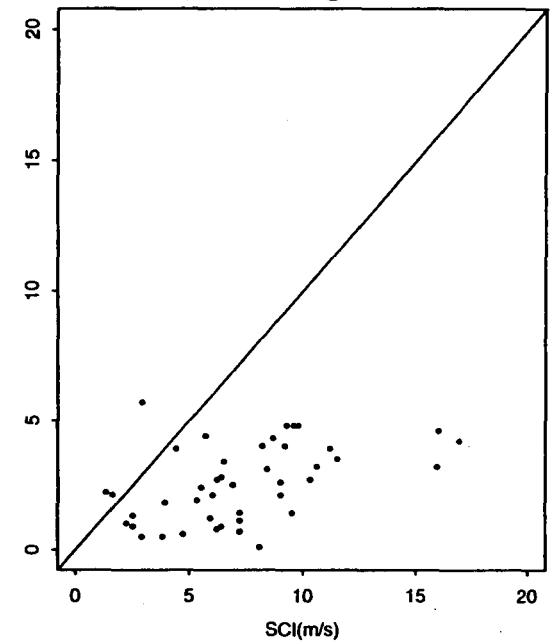
EDWR (Radiosonde) vs MOJR (Radar Wind Profiler), Height=300M



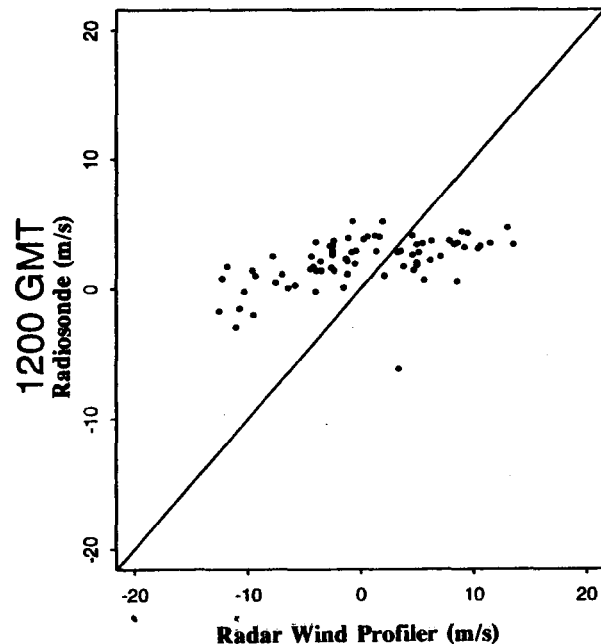
U-Component (m/s)



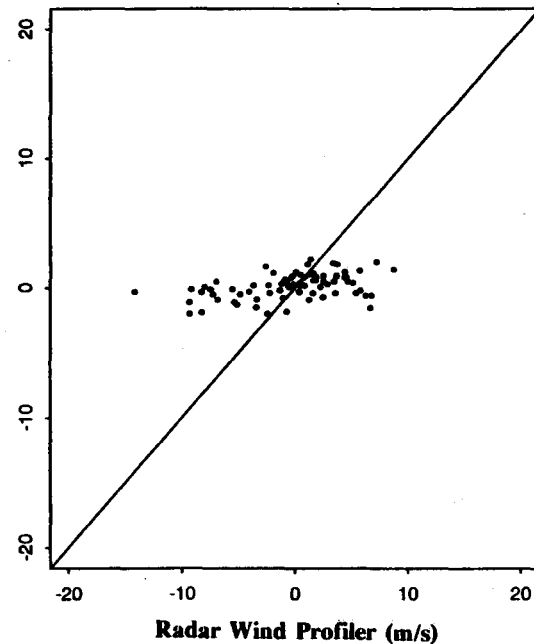
V-Component (m/s)



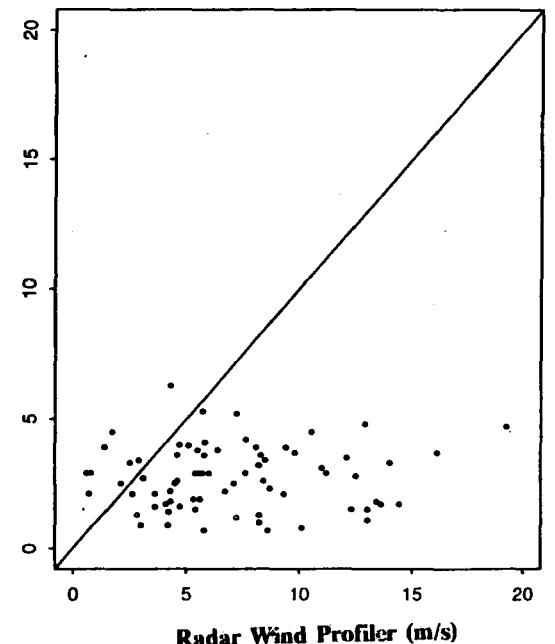
Wind Speed (m/s)



Radar Wind Profiler (m/s)

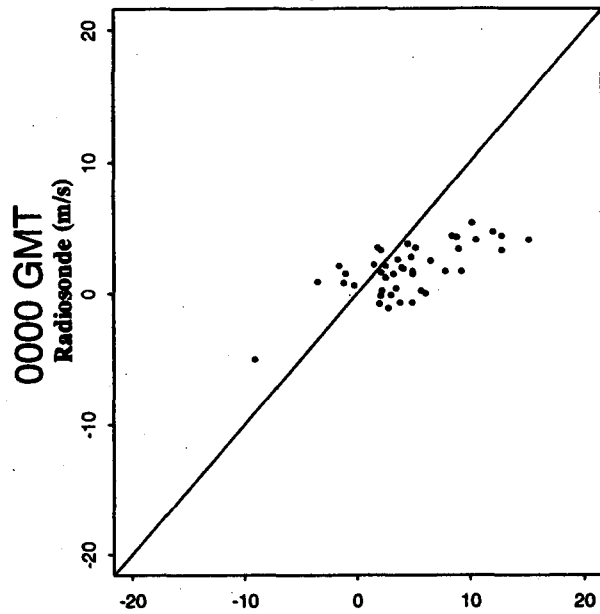


Radar Wind Profiler (m/s)

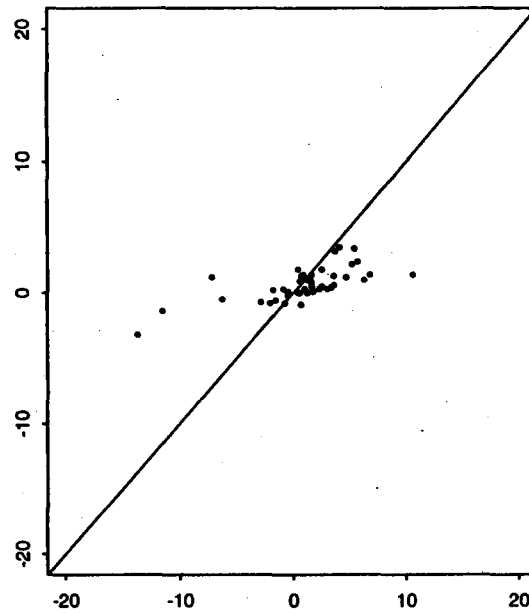


Radar Wind Profiler (m/s)

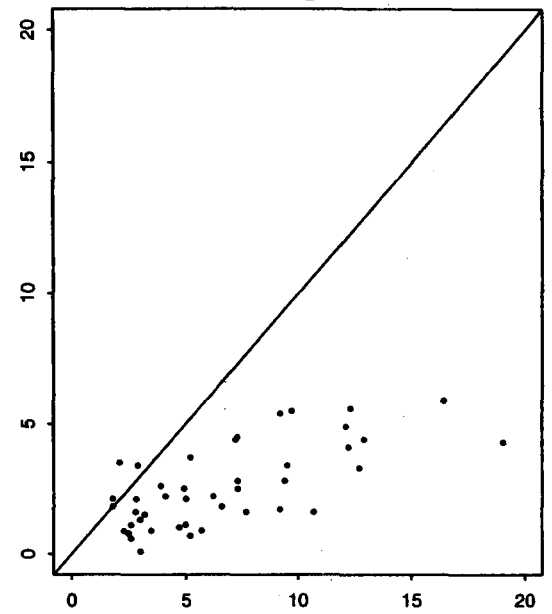
EDWR (Radiosonde) vs MOJR (Radar Wind Profiler), Height=1000M



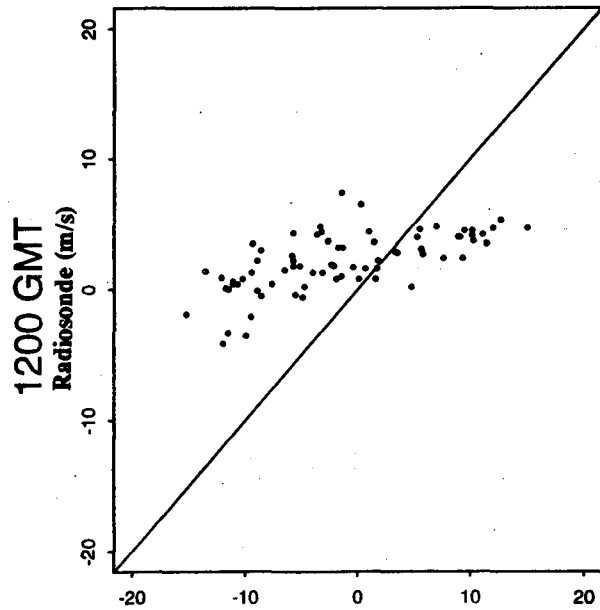
U-Component (m/s)



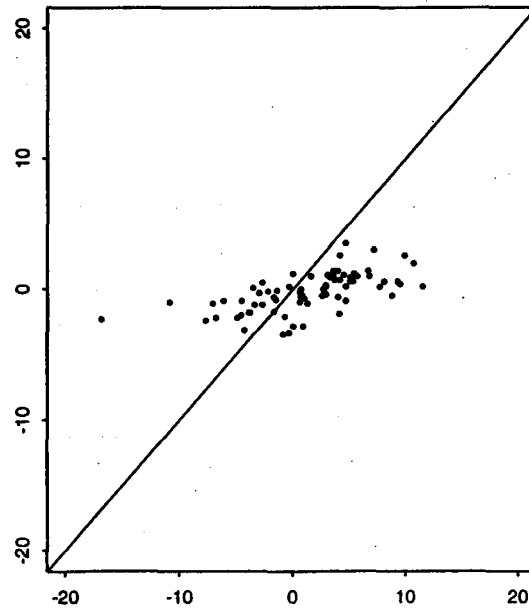
V-Component (m/s)



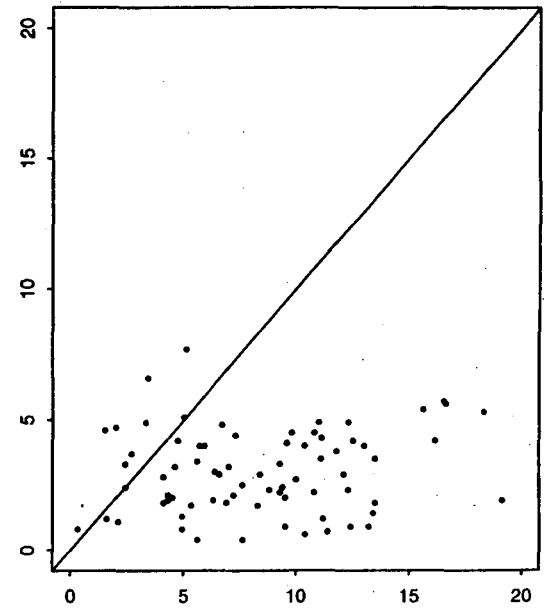
Wind Speed (m/s)



Radar Wind Profiler (m/s)

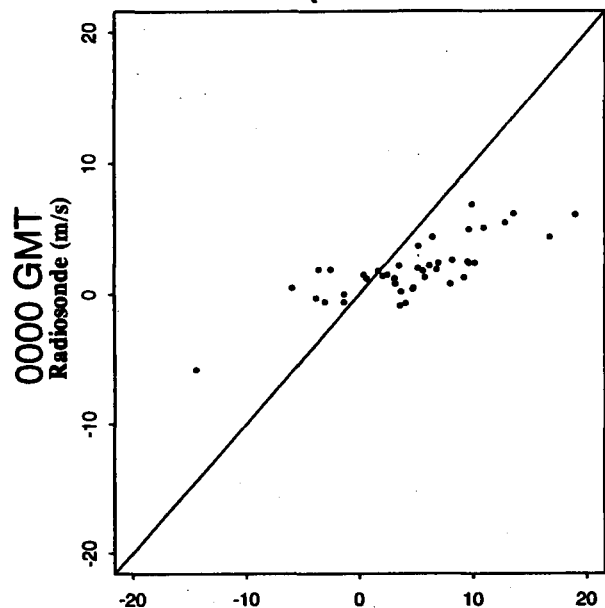


Radar Wind Profiler (m/s)

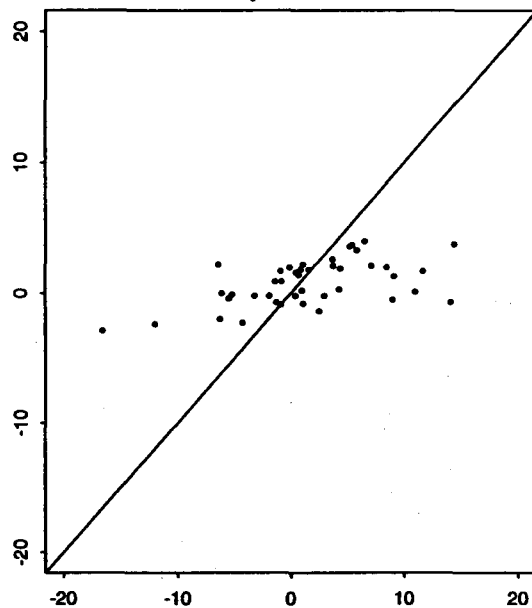


Radar Wind Profiler (m/s)

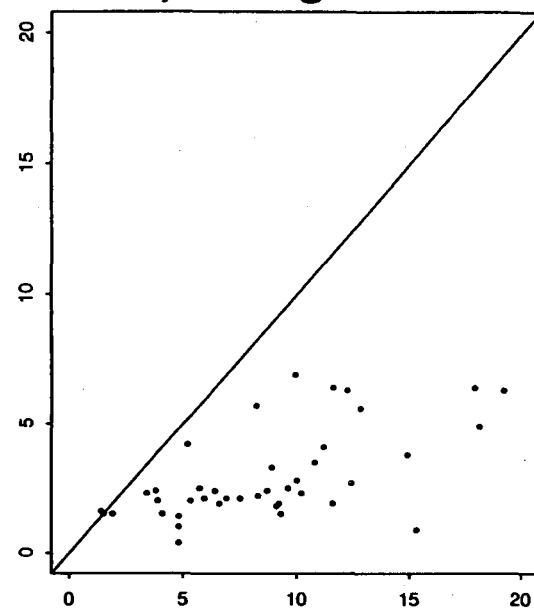
EDWR (Radiosonde) vs MOJR (Radar Wind Profiler), Height=2000M



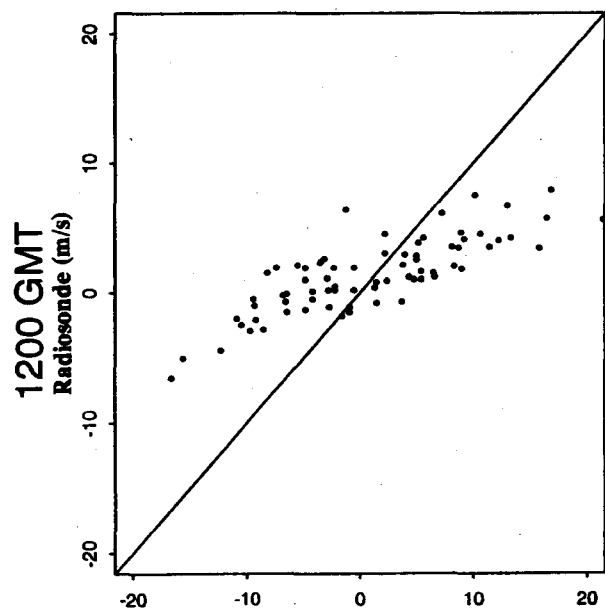
U-Component (m/s)



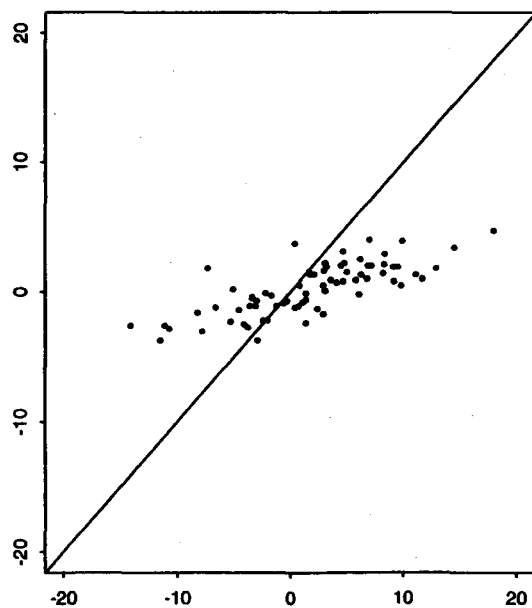
V-Component (m/s)



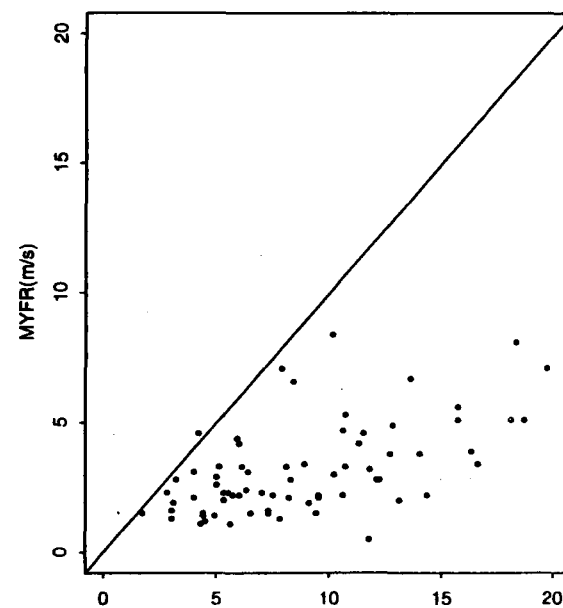
Wind Speed (m/s)



Radar Wind Profiler (m/s)



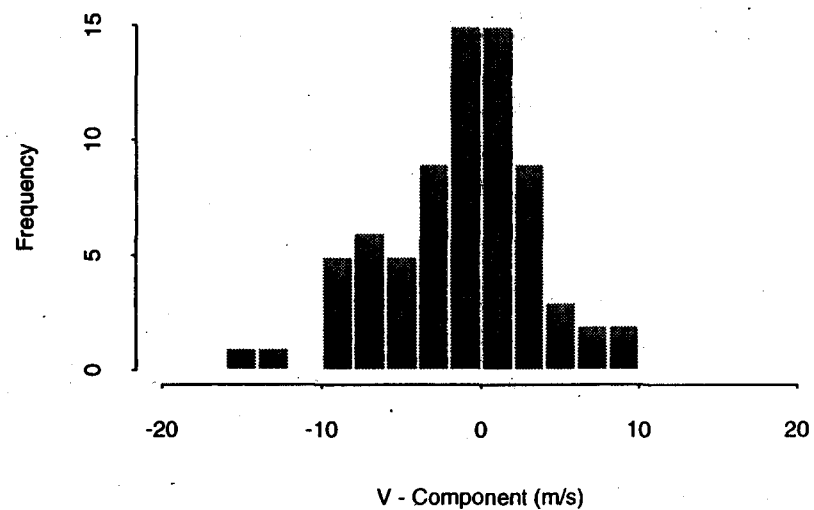
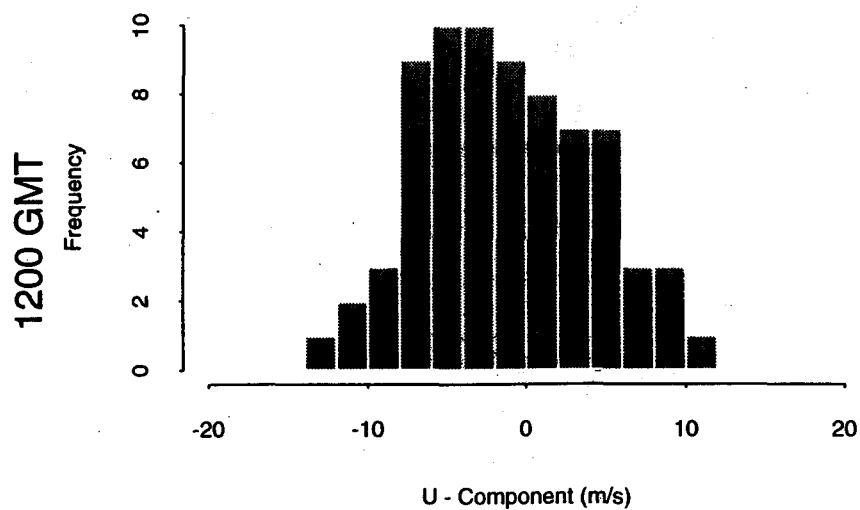
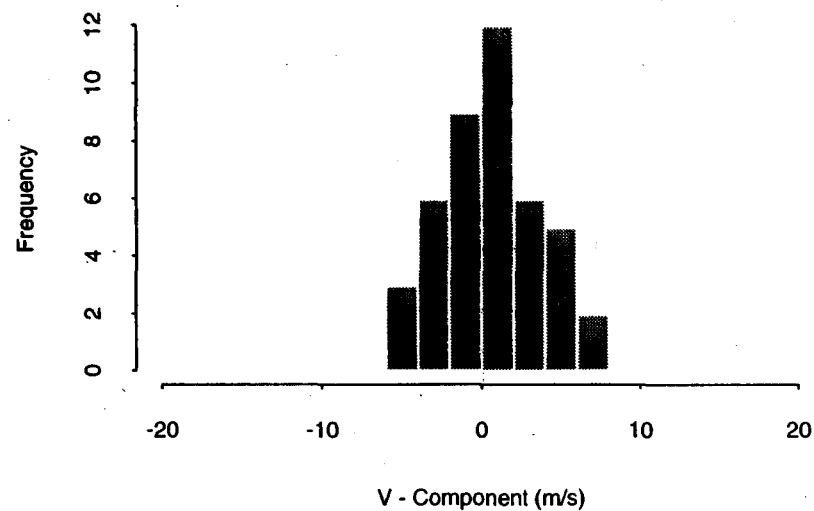
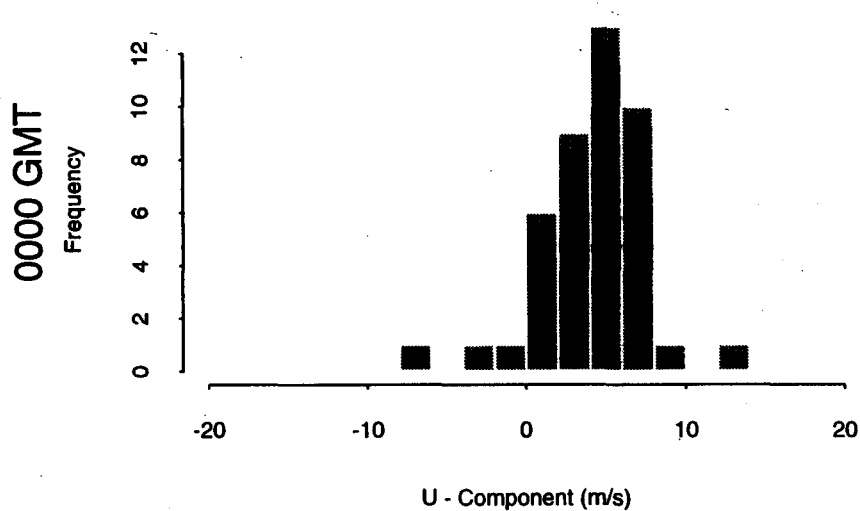
Radar Wind Profiler (m/s)



Radar Wind Profiler (m/s)

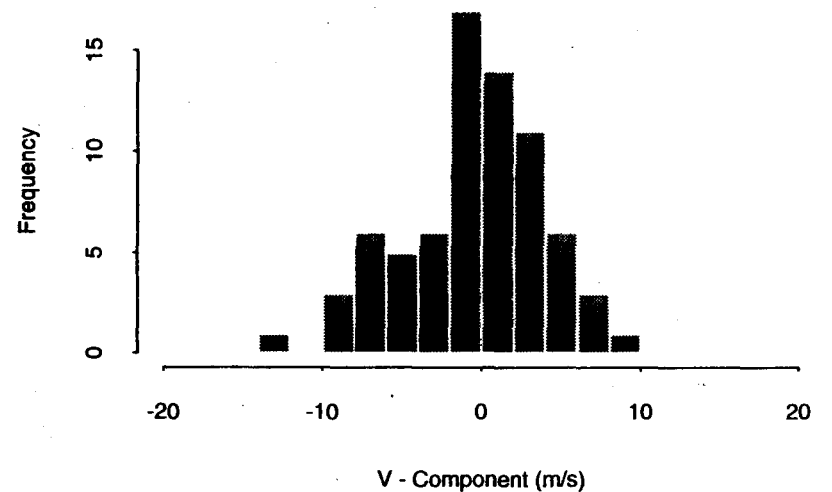
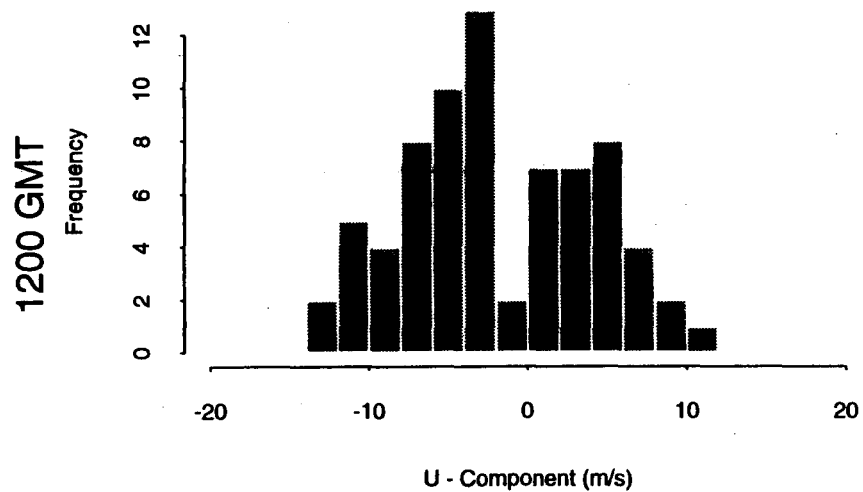
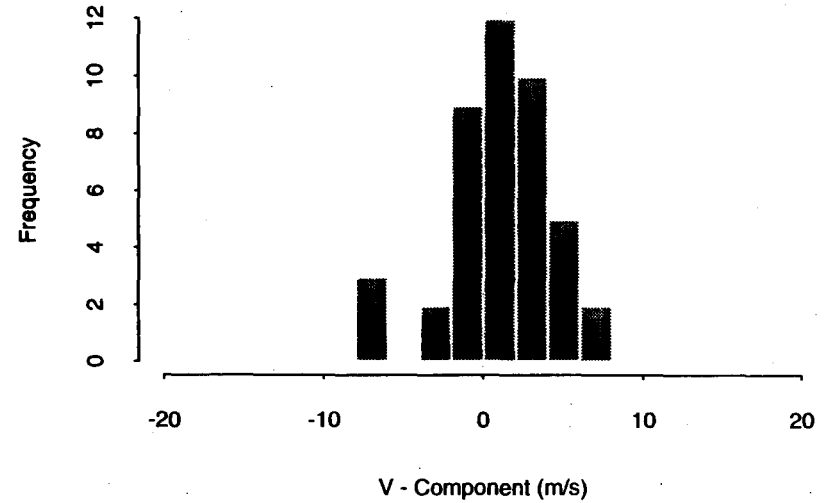
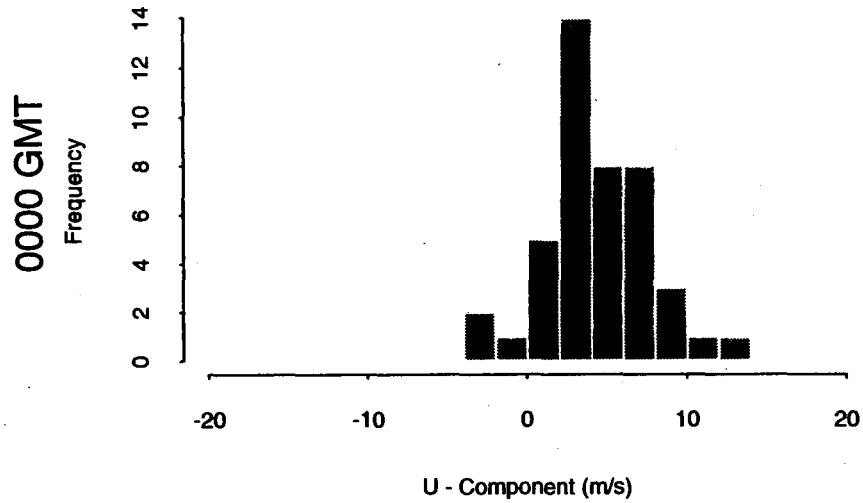
Frequency Distribution of Differences

MOJR (Radar Wind Profiler) - EDWR (Radiosonde), 100M



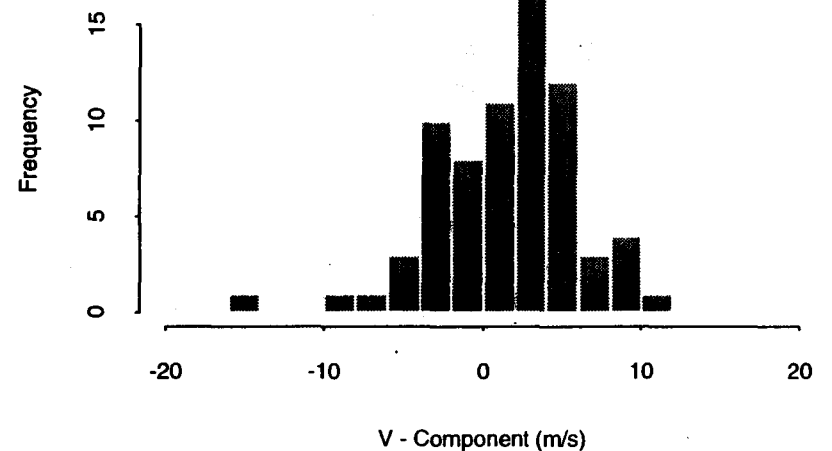
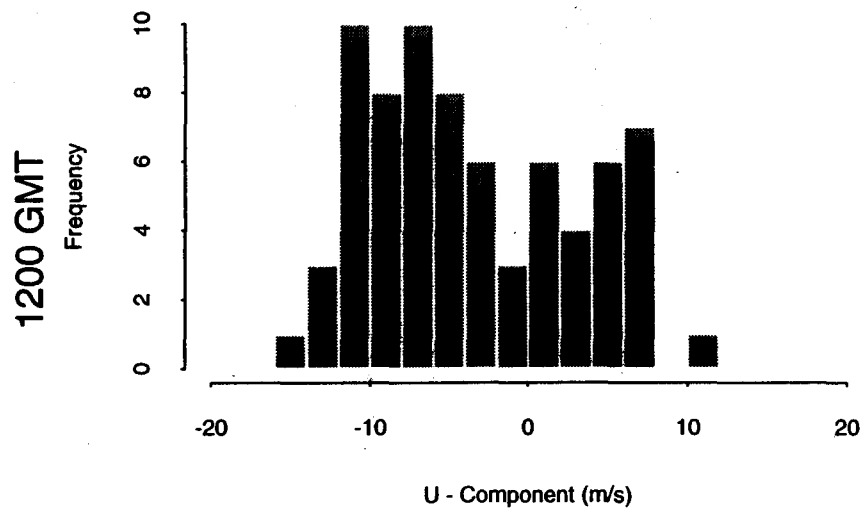
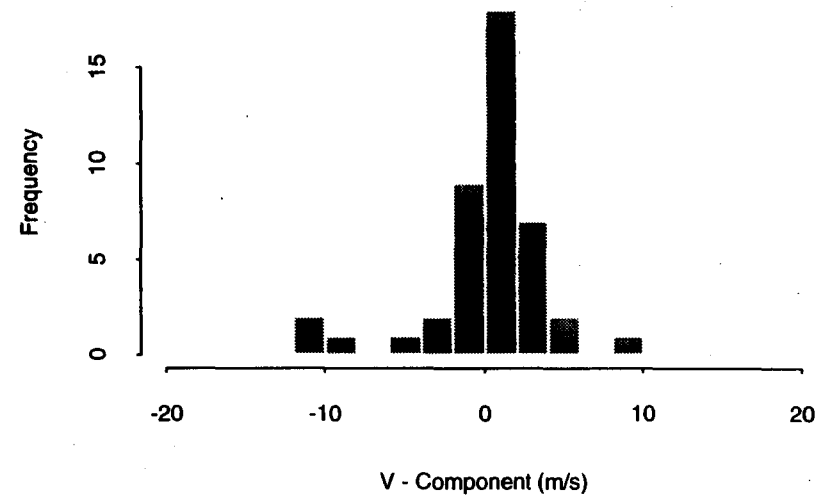
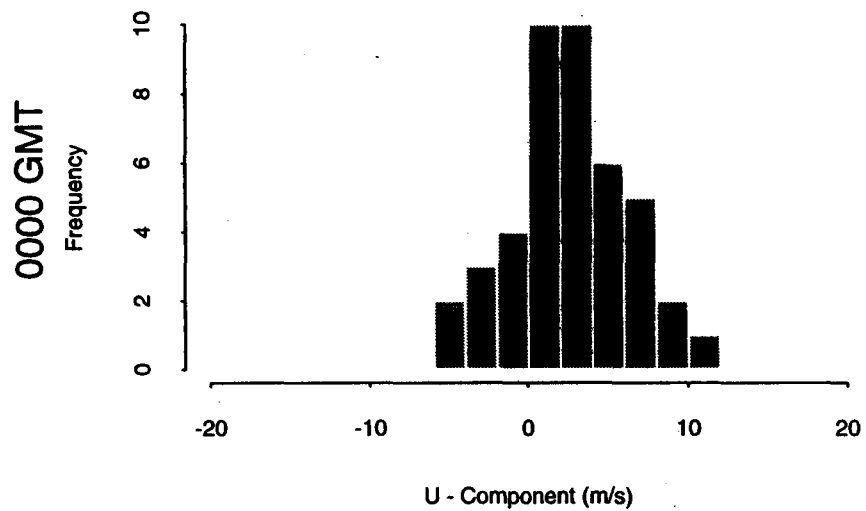
Frequency Distribution of Differences

MOJR (Radar Wind Profiler) - EDWR (Radiosonde), 300M



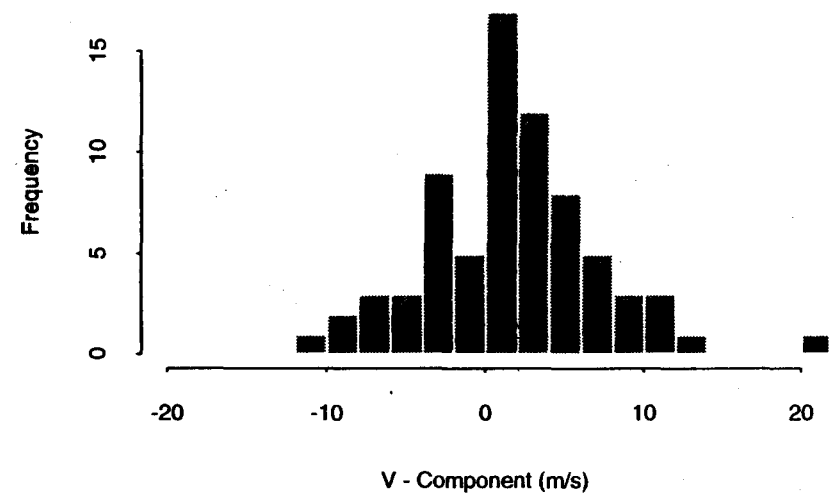
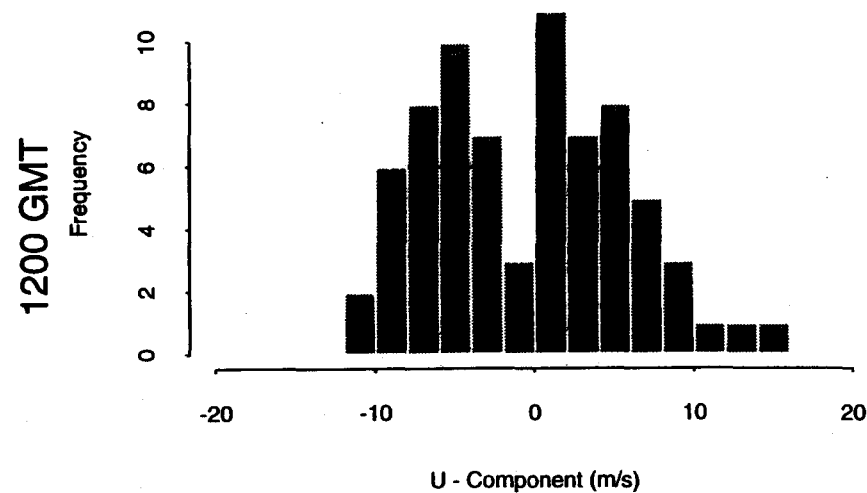
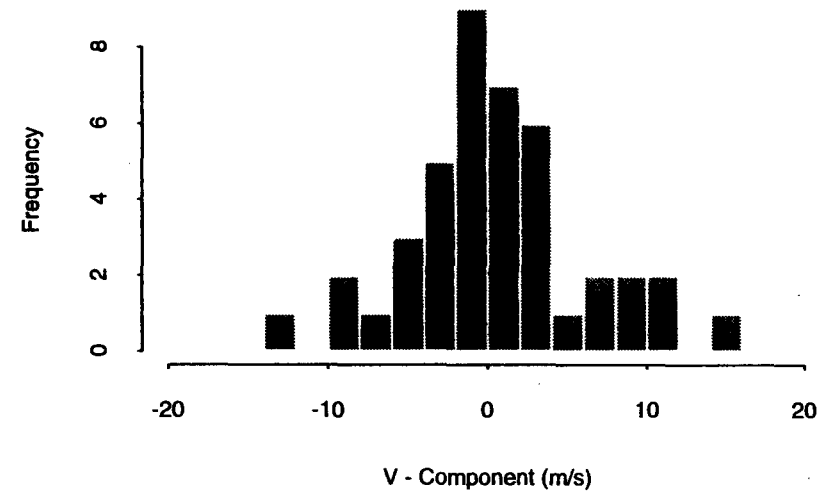
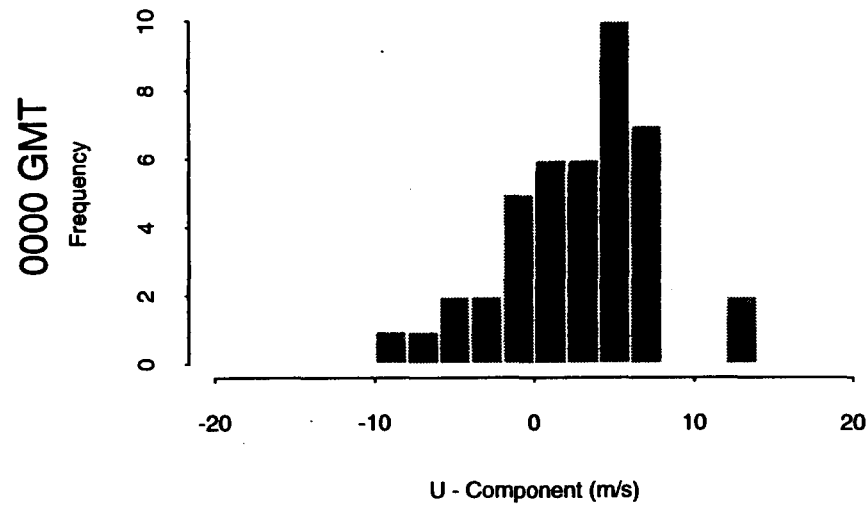
Frequency Distribution of Differences

MOJR (Radar Wind Profiler) - EDWR (Radiosonde), 1000M



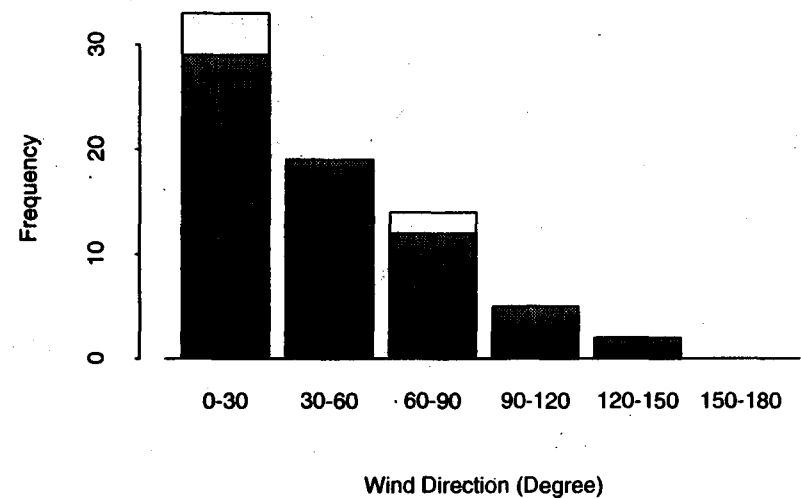
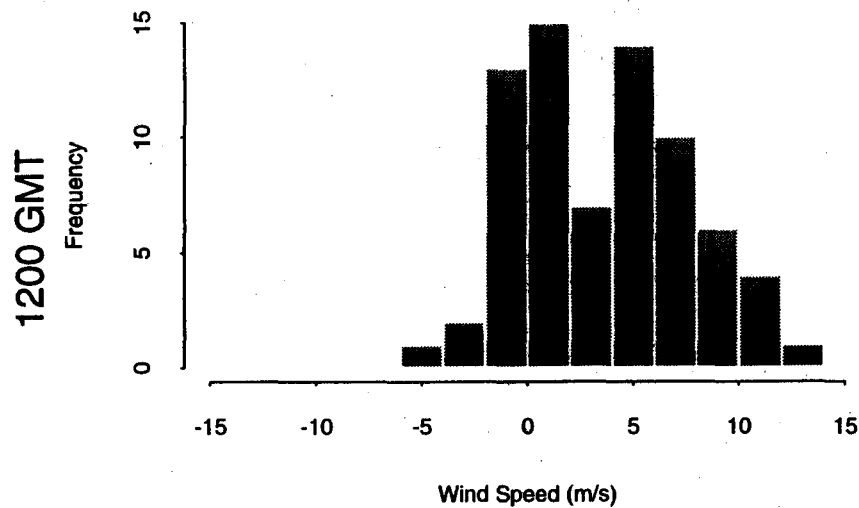
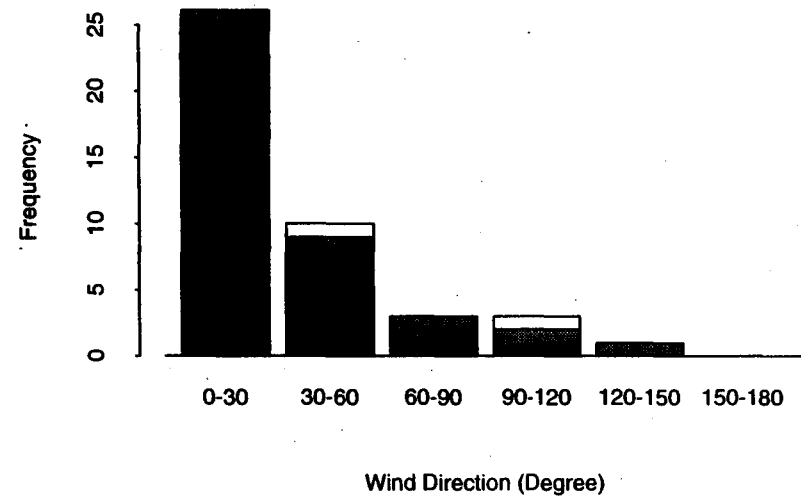
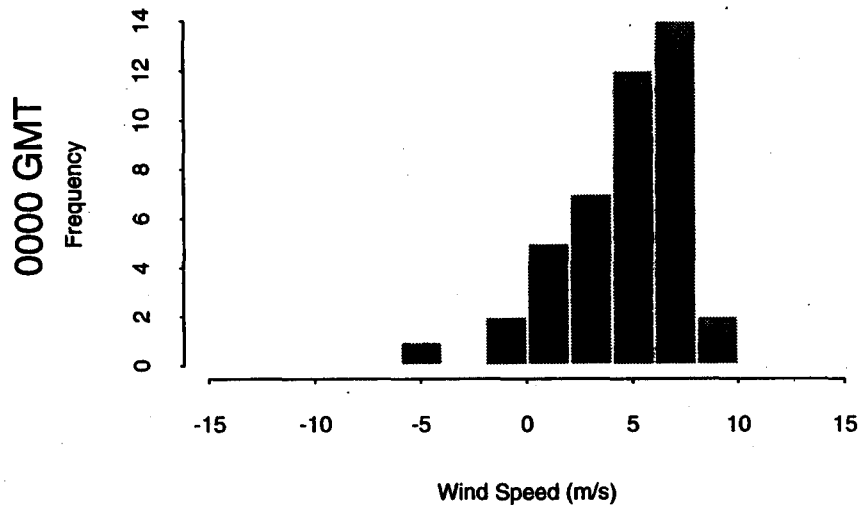
Frequency Distribution of Differences

MOJR (Radar Wind Profiler) - EDWR (Radiosonde), 2000M



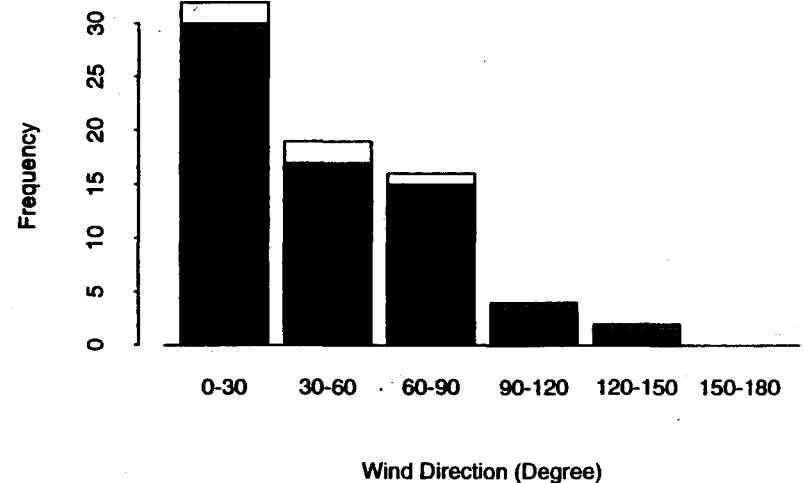
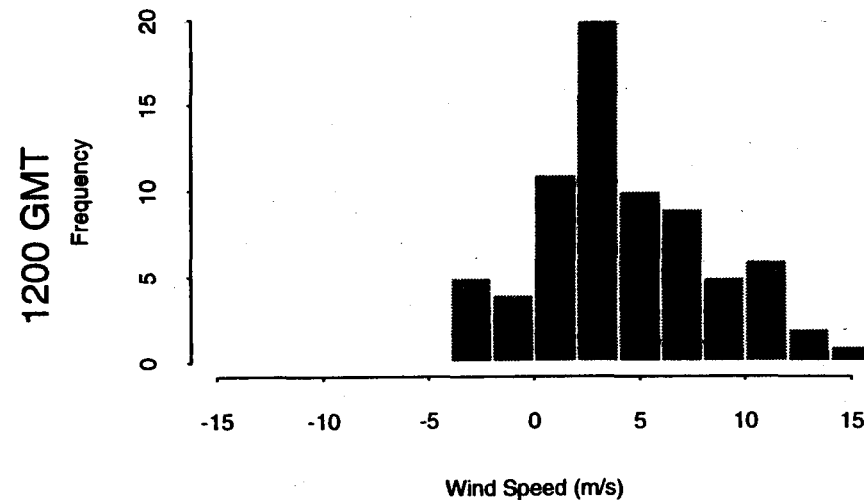
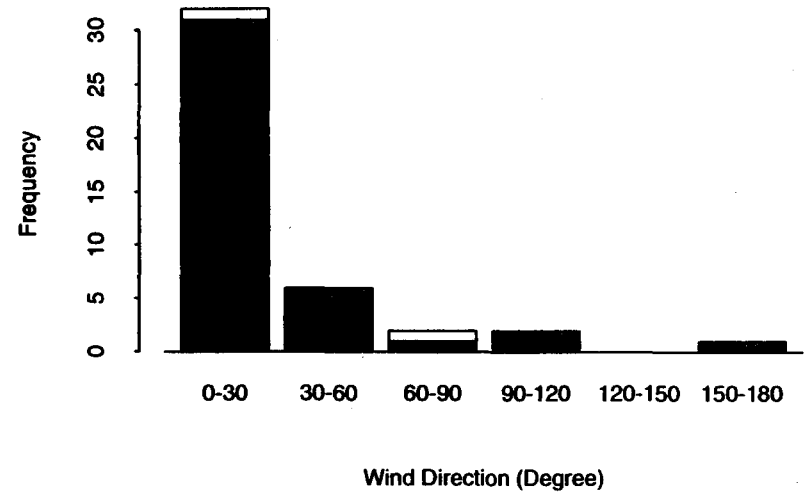
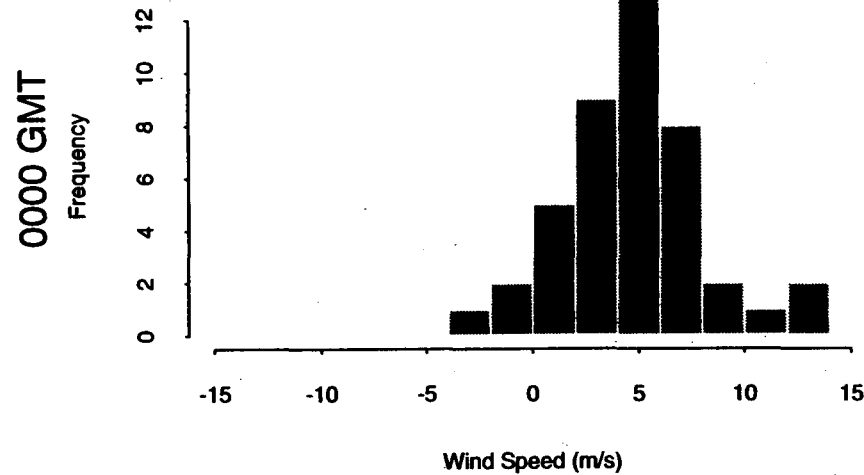
Frequency Distribution of Differences

MOJR (Radar Wind Profiler) - EDWR (Radiosonde), 100M



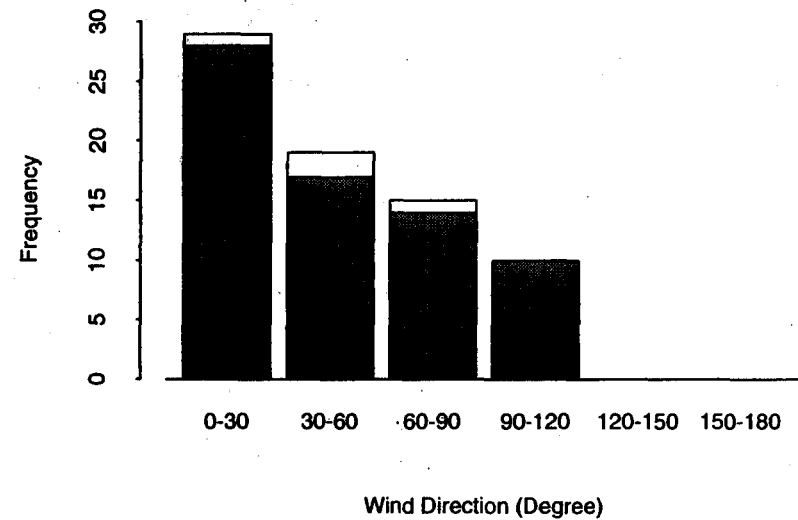
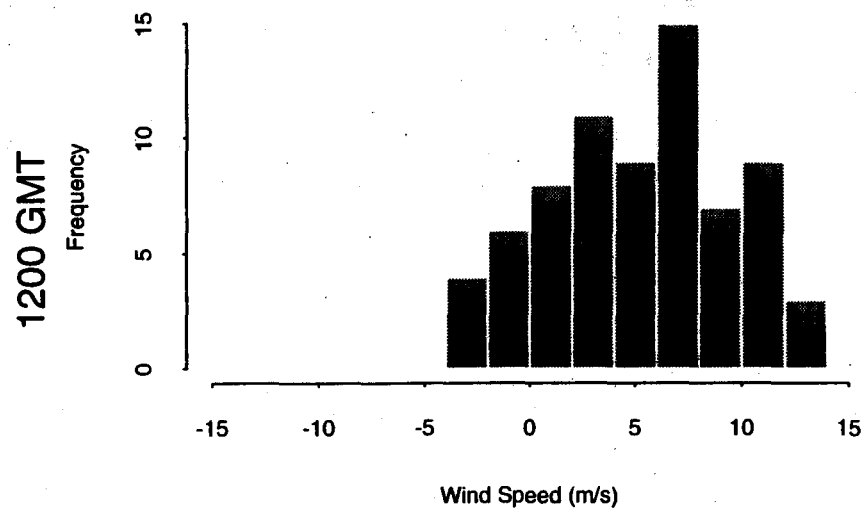
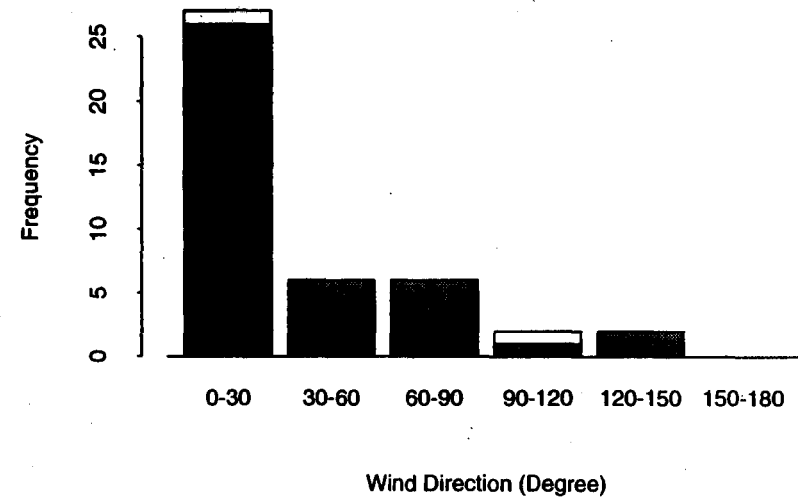
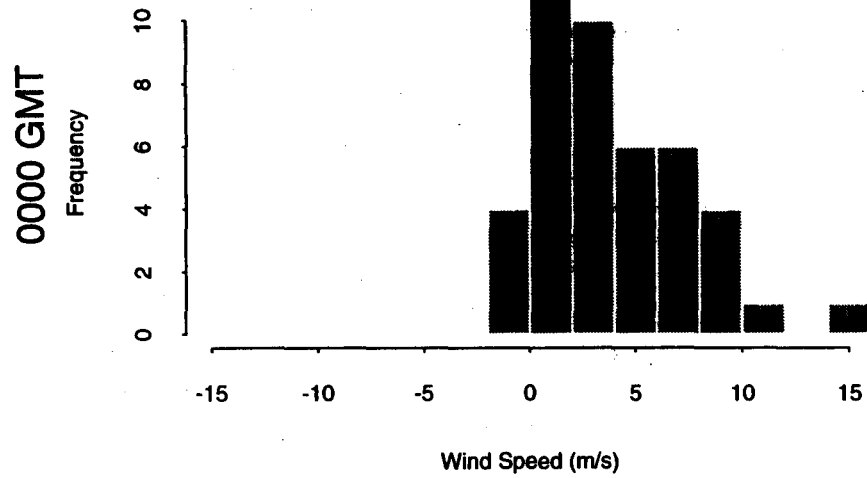
Frequency Distribution of Differences

MOJR (Radar Wind Profiler) - EDWR (Radiosonde), 300M



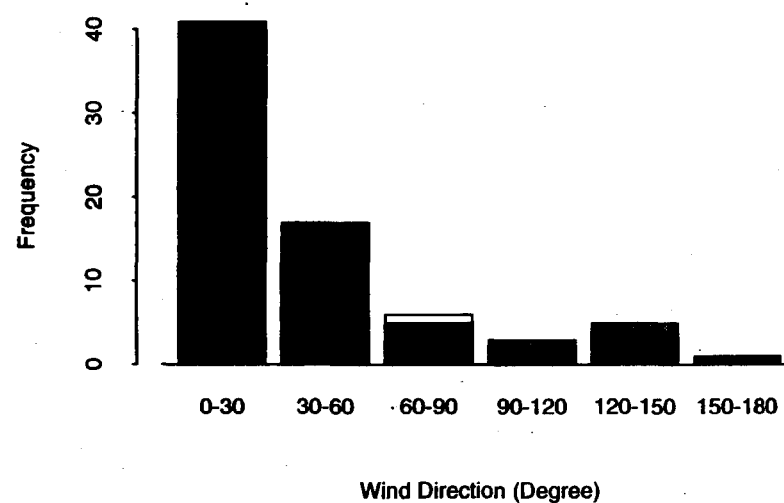
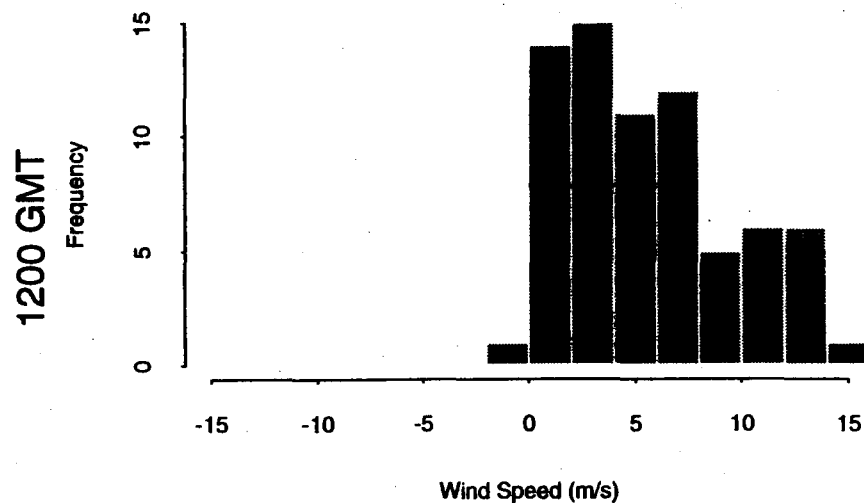
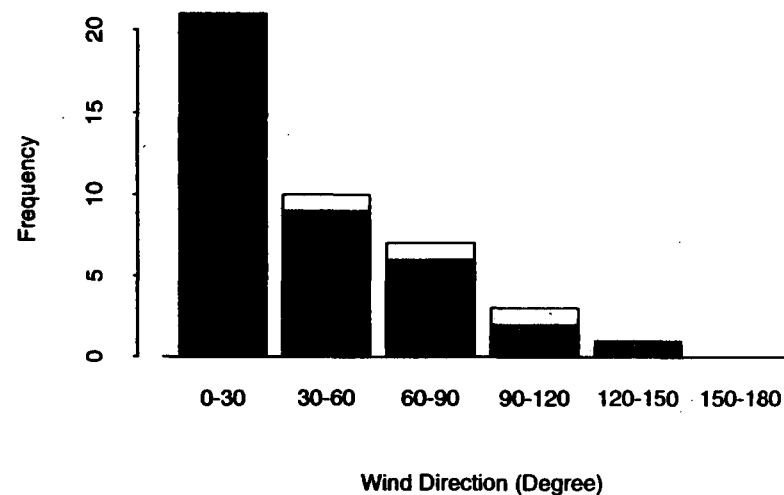
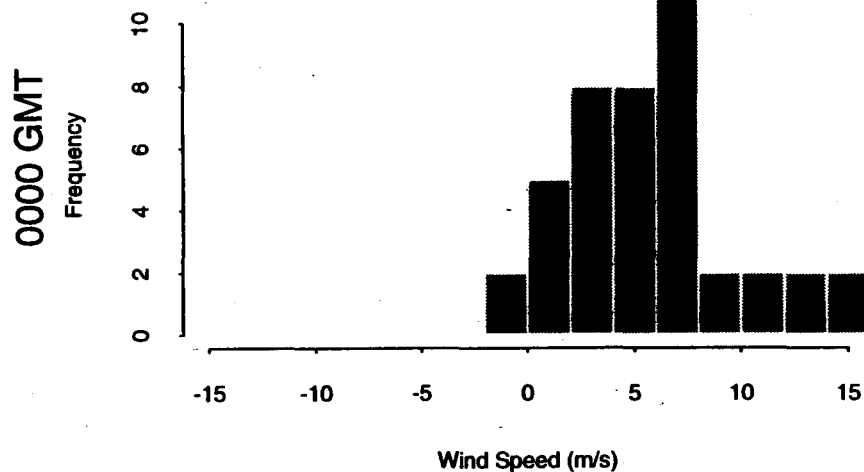
Frequency Distribution of Differences

MOJR (Radar Wind Profiler) - EDWR (Radiosonde), 1000M



Frequency Distribution of Differences

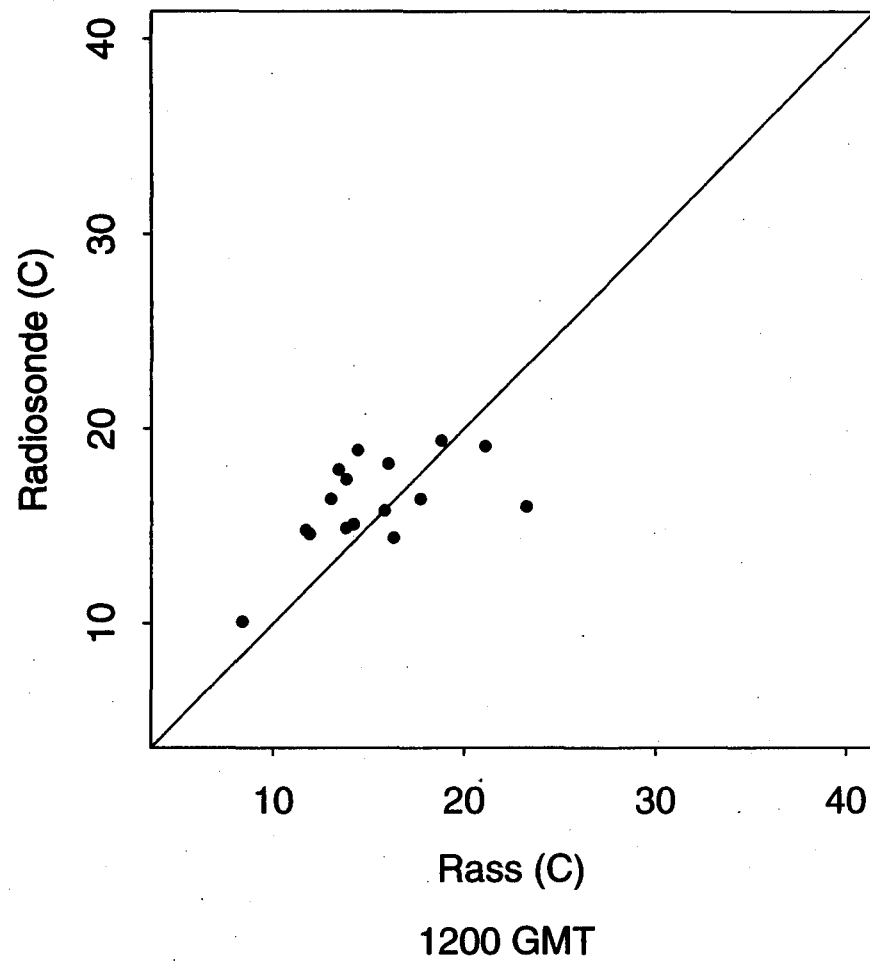
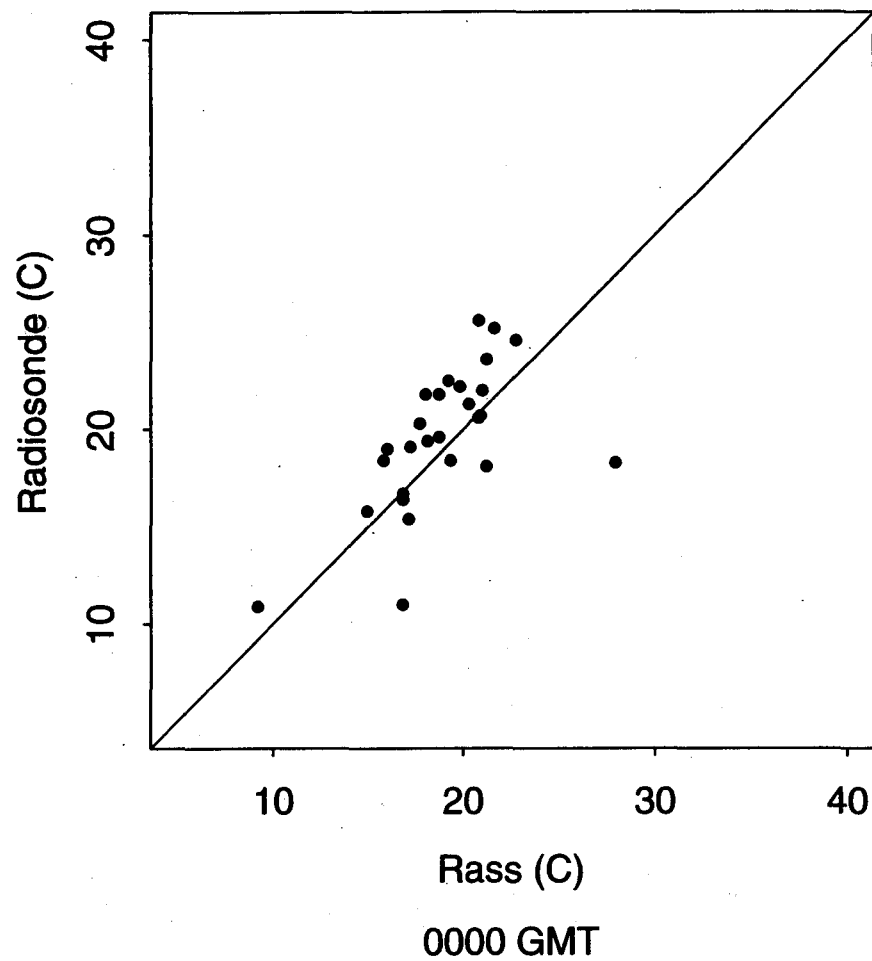
MOJR (Radar Wind Profiler) - EDWR (Radiosonde), 2000M



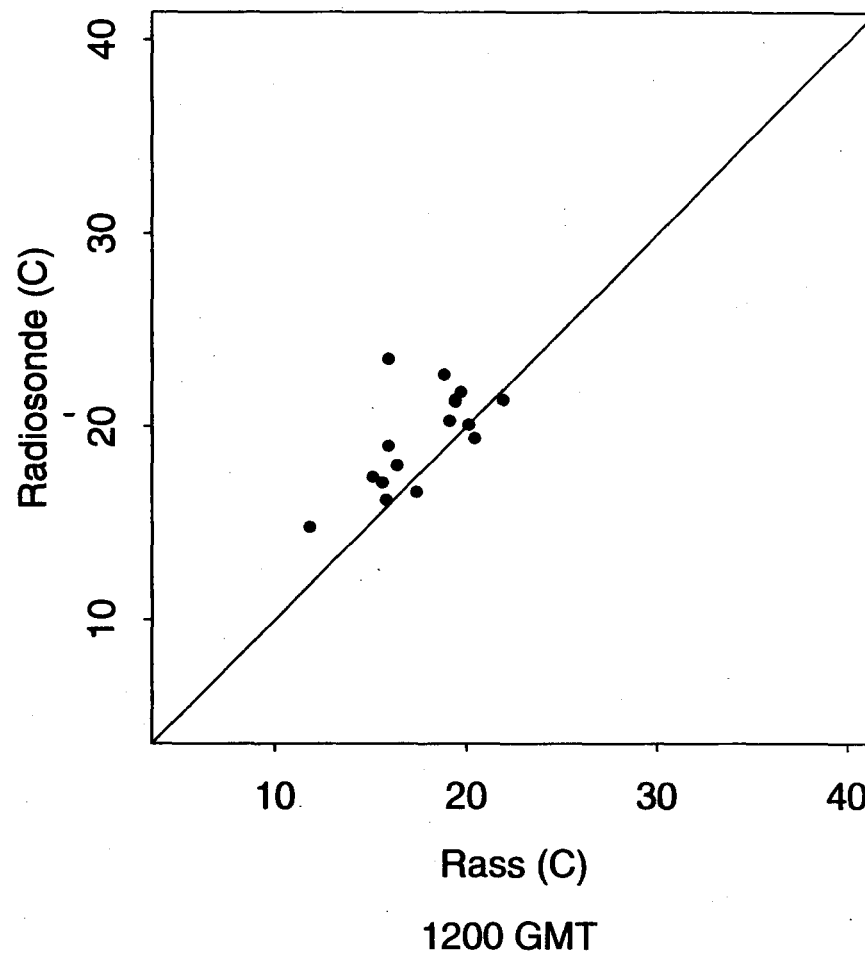
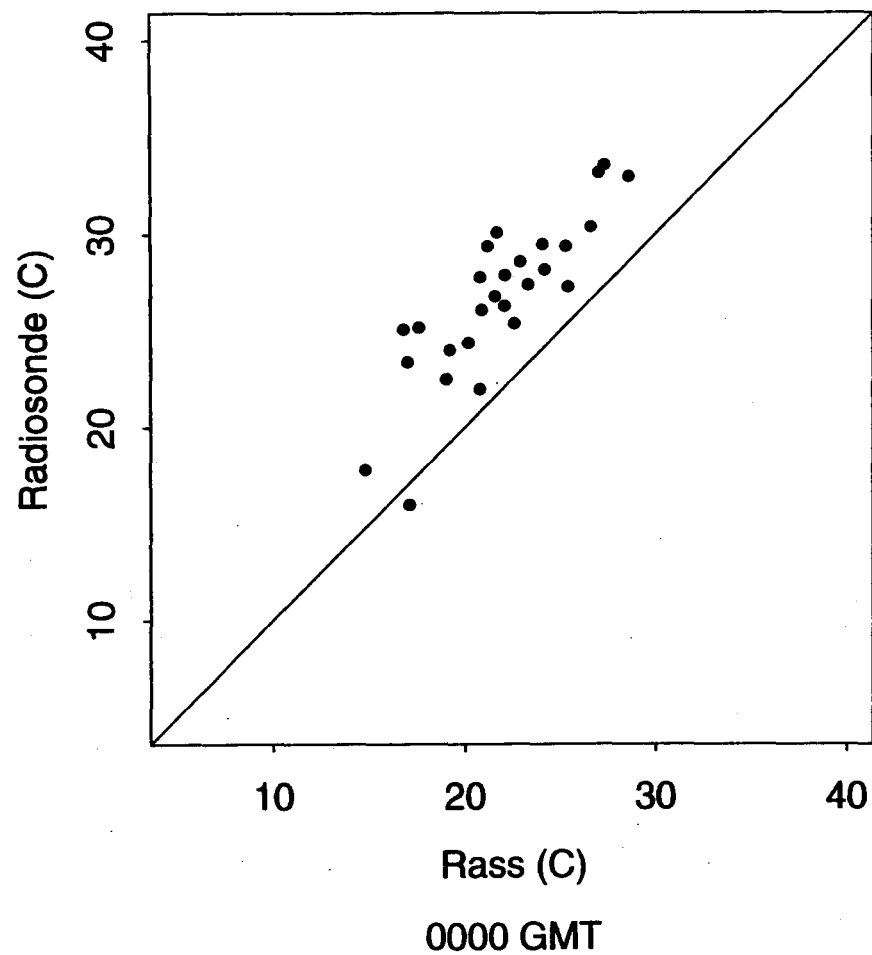
Appendix A4

**SCATTER PLOTS OF VIRTUAL TEMPERATURE FOR RASS AND
RADIOSONDE SITE PAIRS AND HISTOGRAMS OF THE DIFFERENCES FOR
MONITORING SITES LOCATED IN THE SOUTHEAST DESERT AIR BASIN
(SEDAB)**

EDWR (Radiosonde) vs HES (RASS), Height=1000M

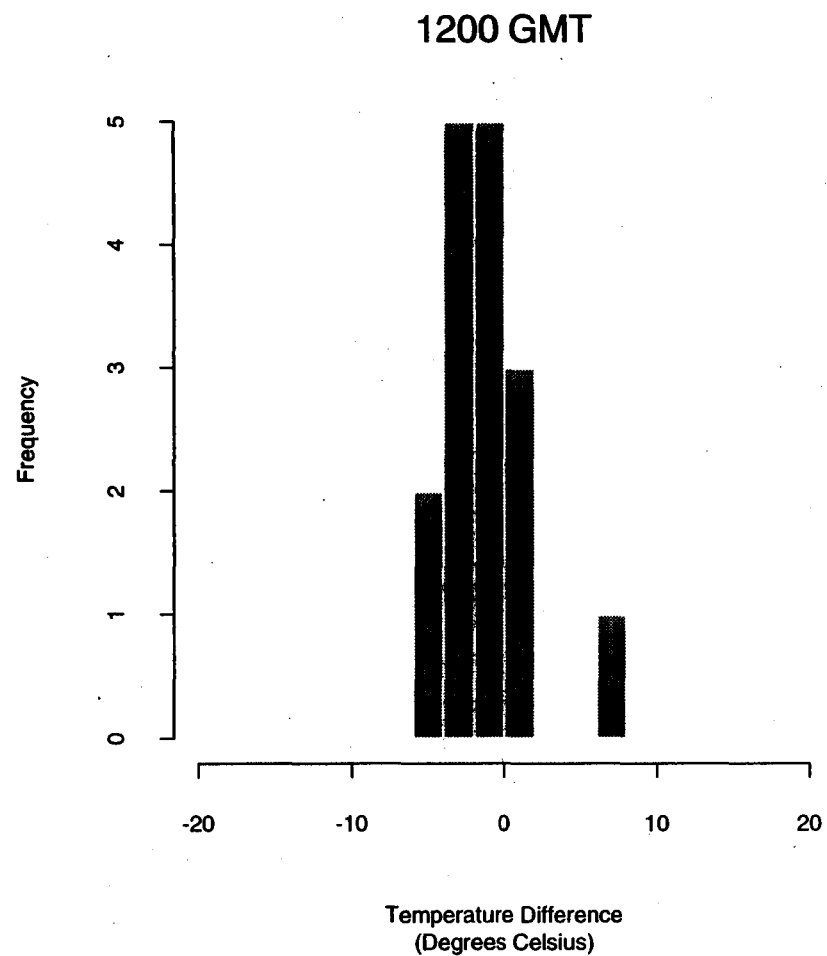
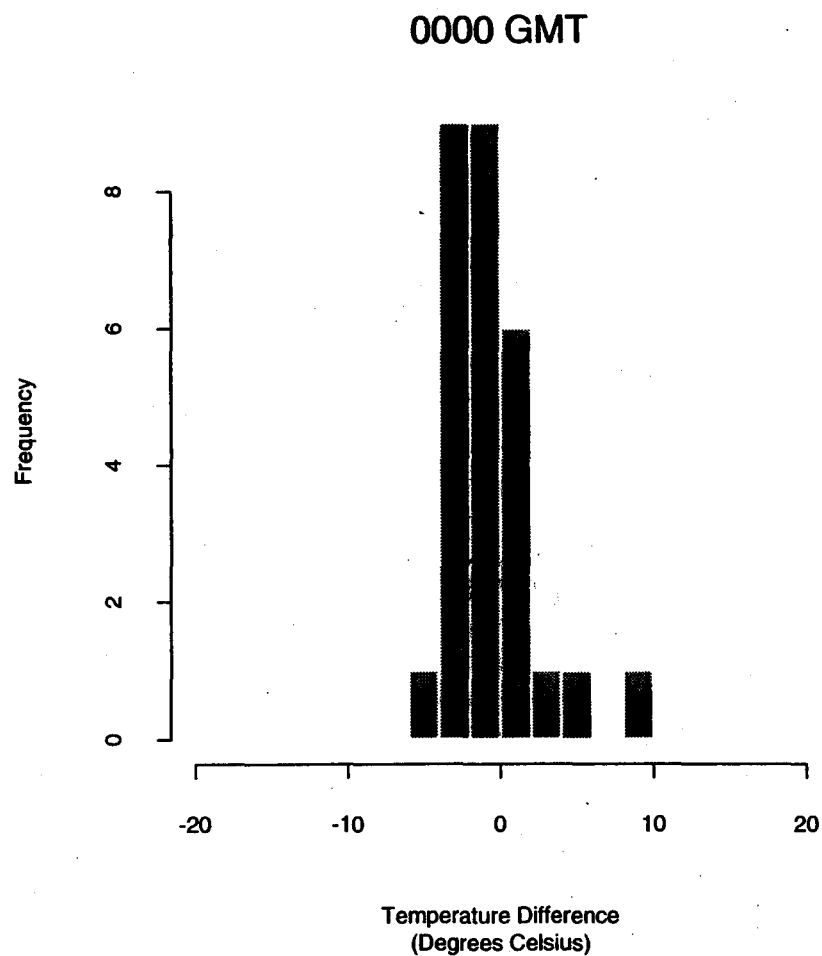


EDWR (Radiosonde) vs HES (RASS), Height=300 M



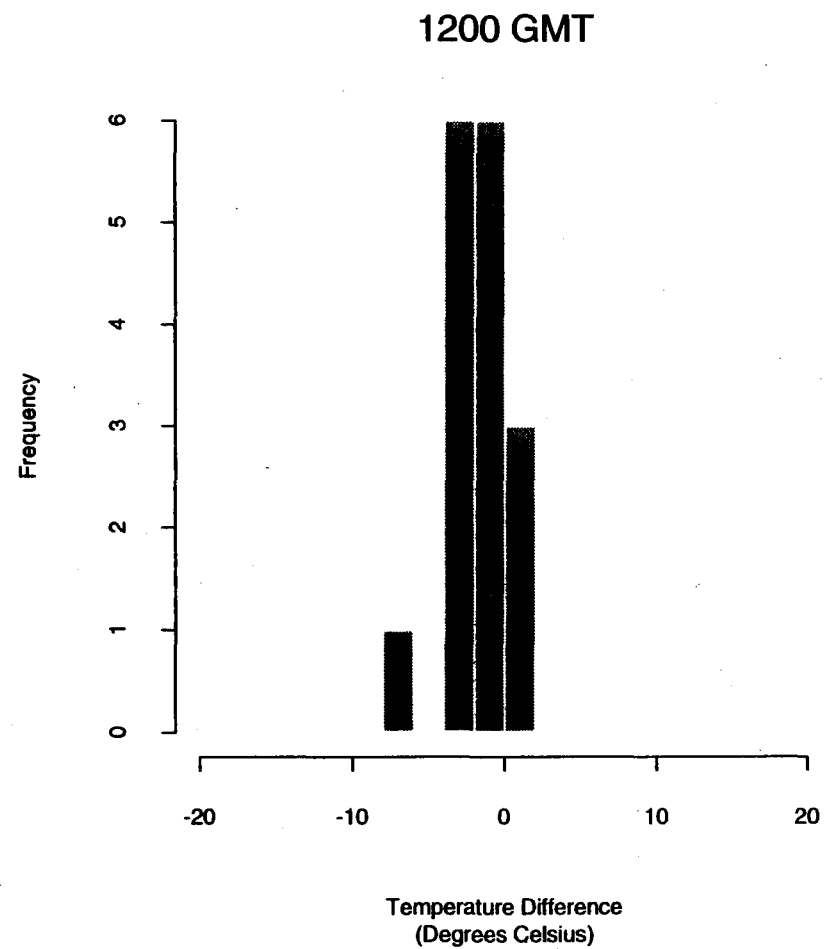
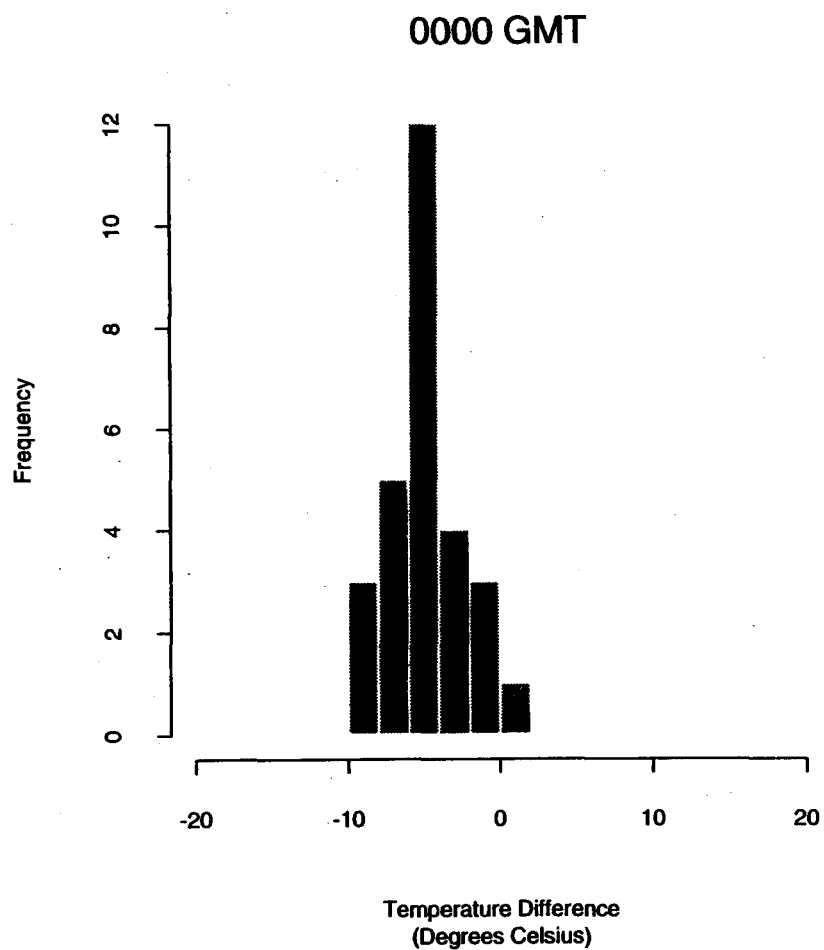
Frequency Distribution of Differences

HES(RASS) - EDWR(Radiosonde), 1000M



Frequency Distribution of Differences

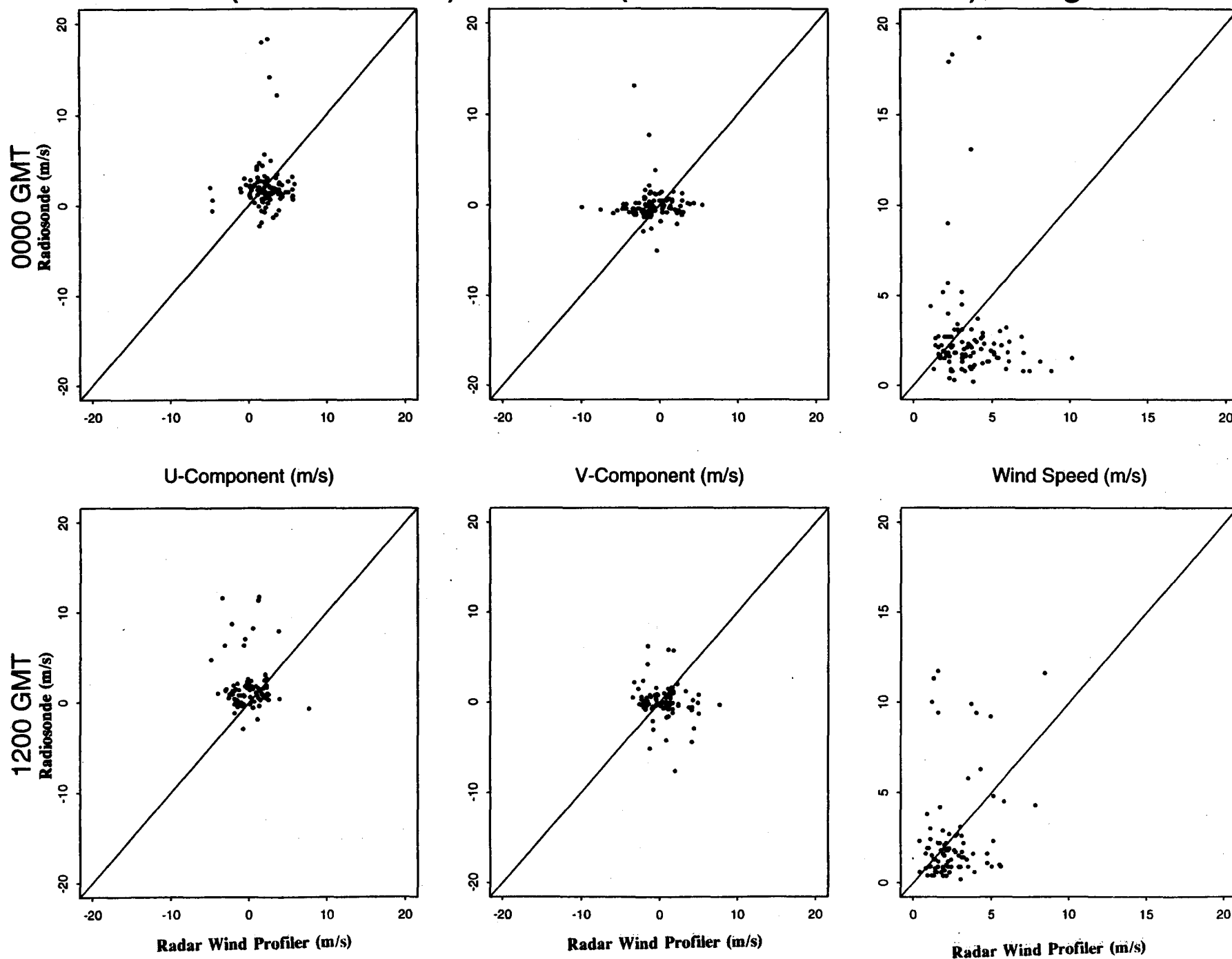
HES(RASS) - EDWR(Radiosonde), 300M



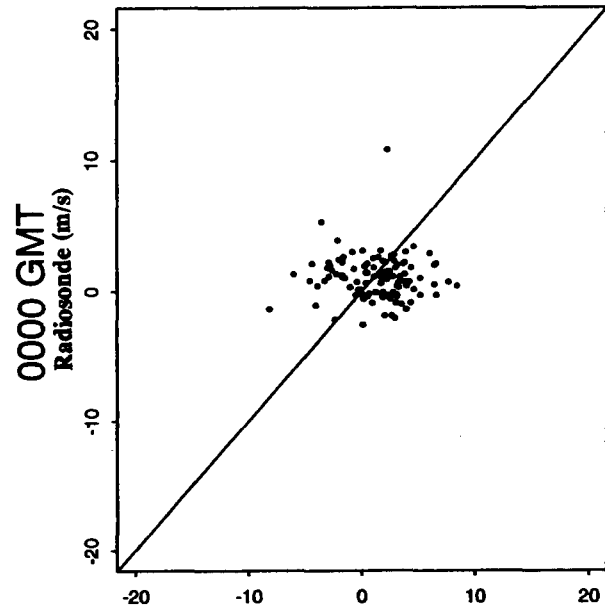
Appendix B1

**SCATTER PLOTS OF U AND V WIND COMPONENTS AND WIND SPEEDS AND
HISTOGRAMS OF DIFFERENCES BETWEEN U AND V WIND COMPONENT,
WIND SPEED, AND WIND DIRECTION DATA FOR RADAR WIND PROFILER
(RWP) AND RADIOSONDE SITE PAIRS LOCATED IN THE SAN DIEGO AIR
BASIN (SDAB)**

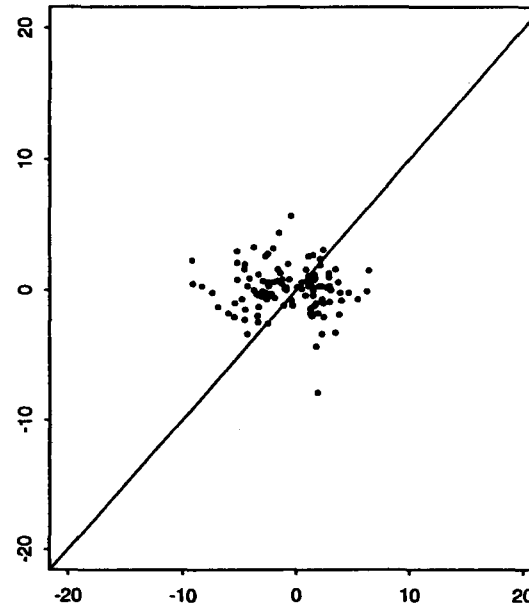
MYFR (Radiosonde) vs SDO (Radar Wind Profiler), Height=300M



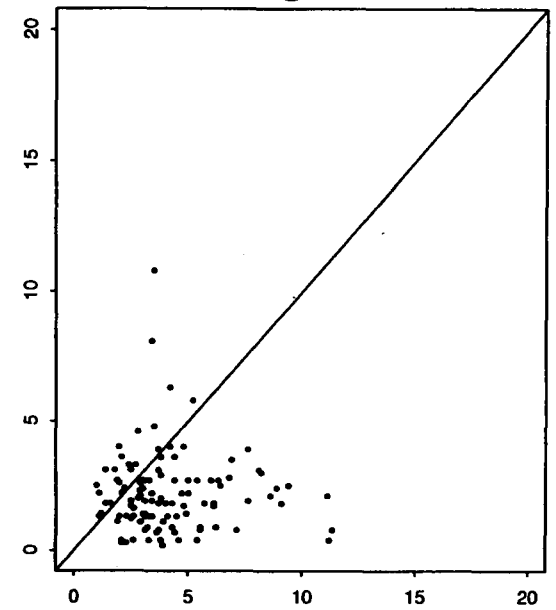
MYFR (Radiosonde) vs SDO (Radar Wind Profiler), Height=1000M



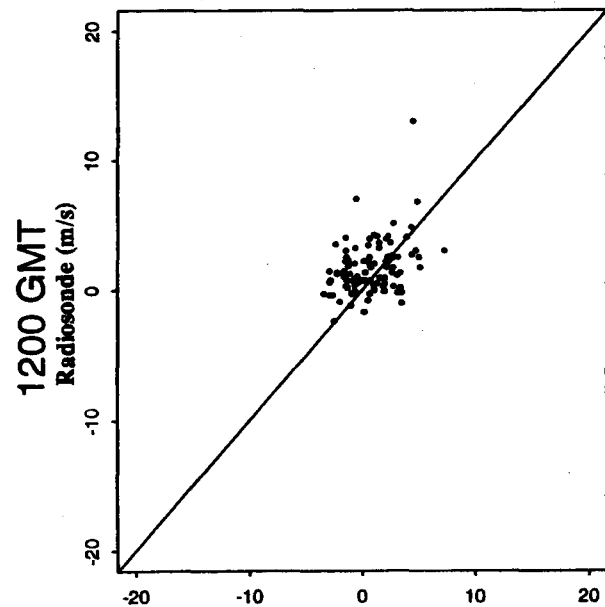
U-Component (m/s)



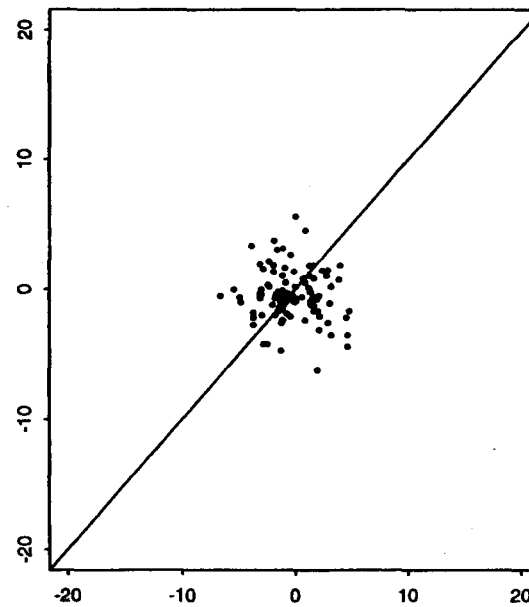
V-Component (m/s)



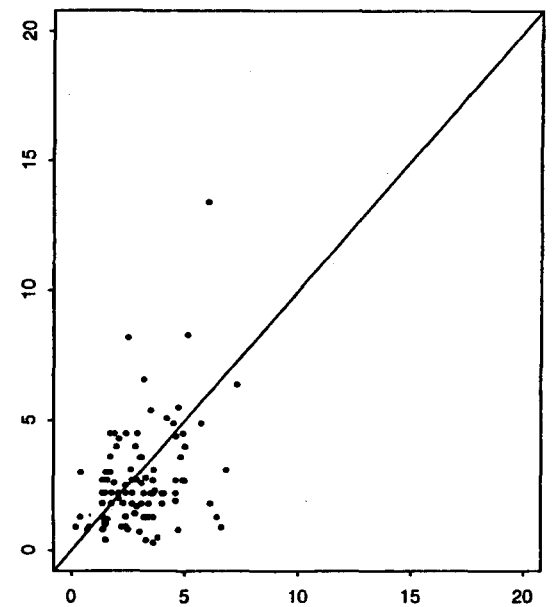
Wind Speed (m/s)



Radar Wind Profiler (m/s)

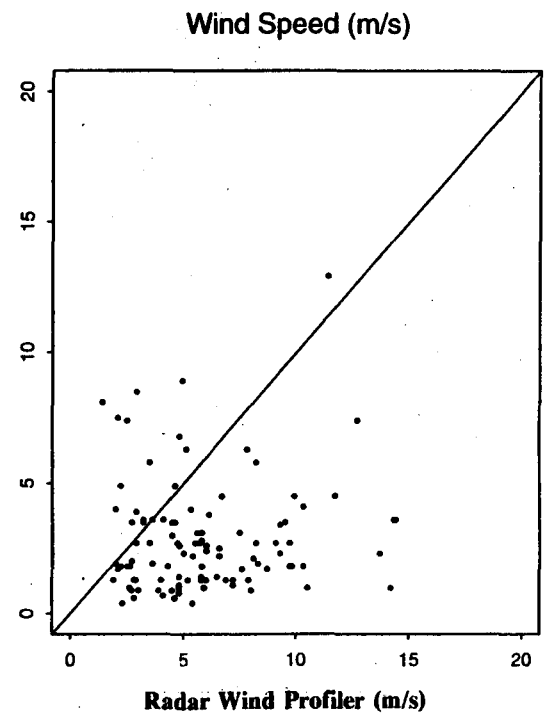
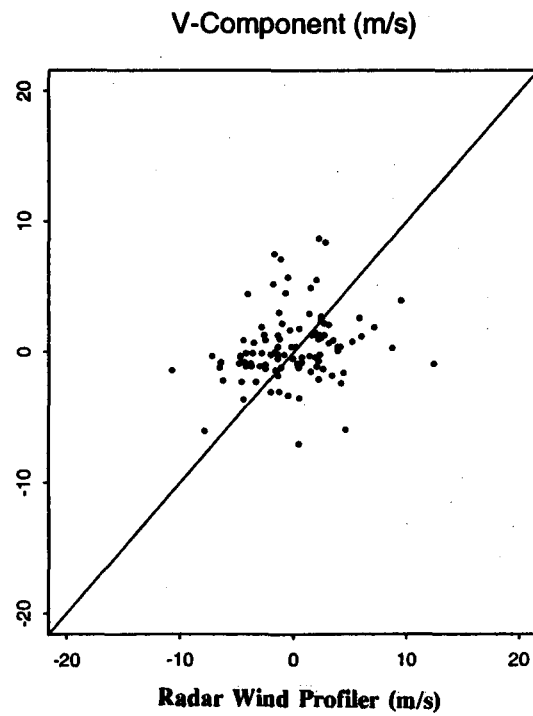
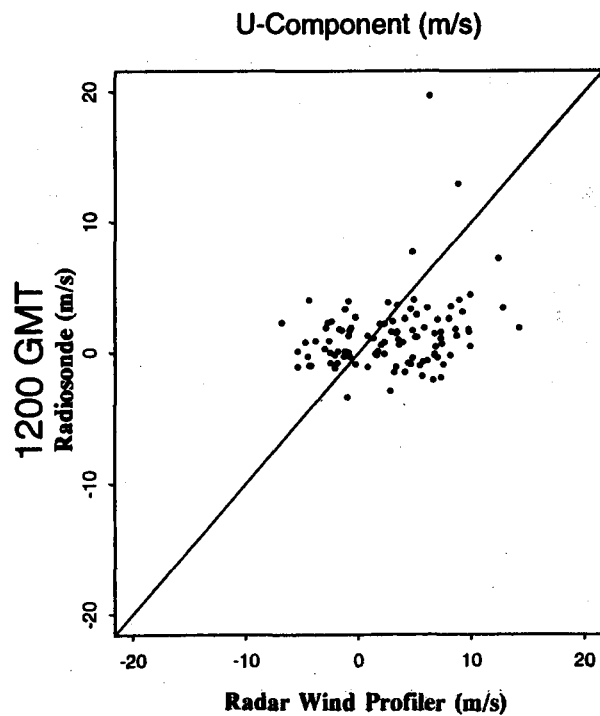
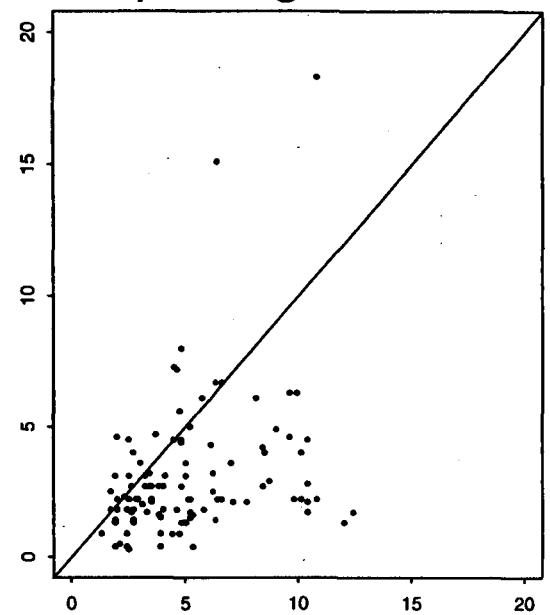
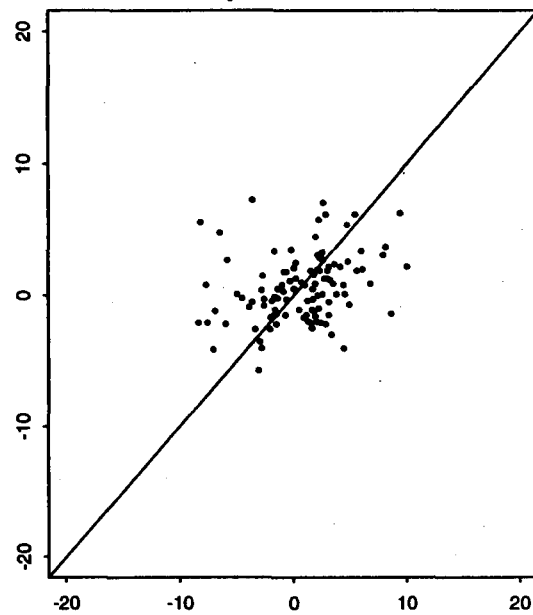
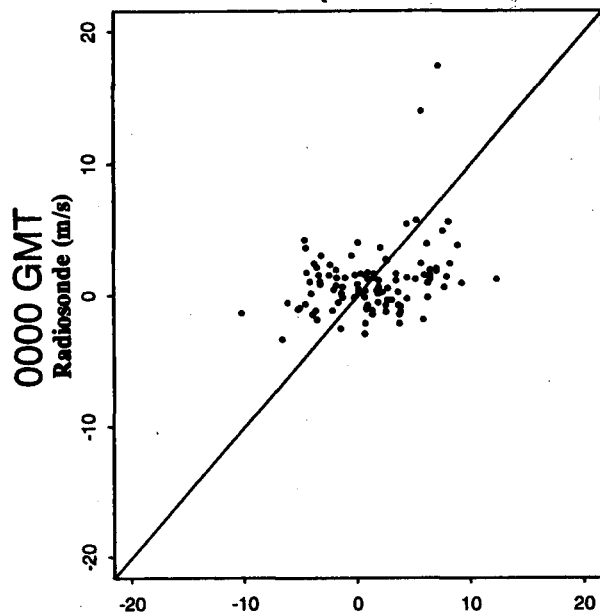


Radar Wind Profiler (m/s)



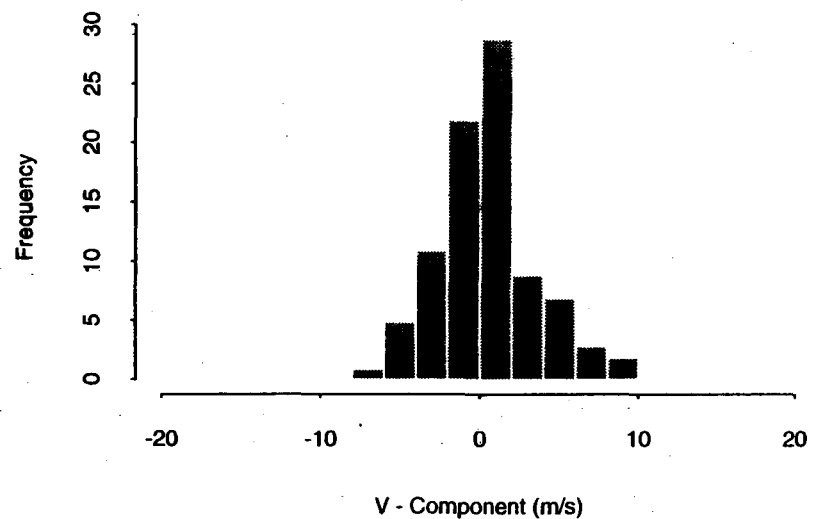
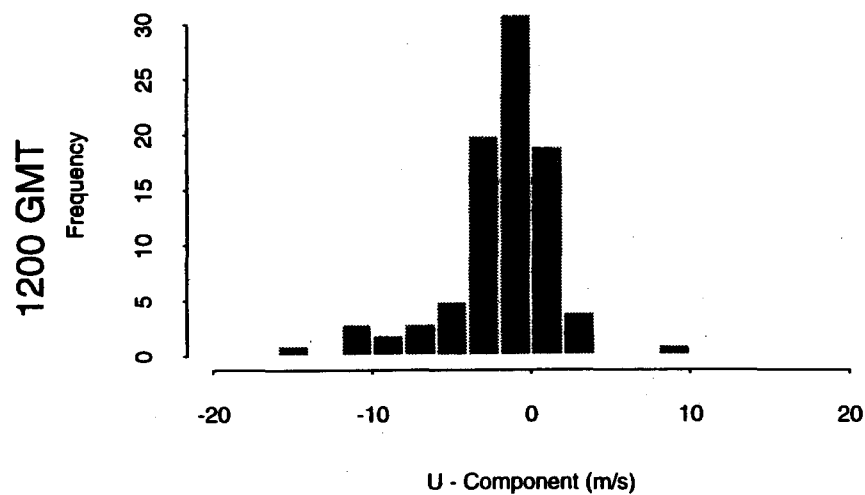
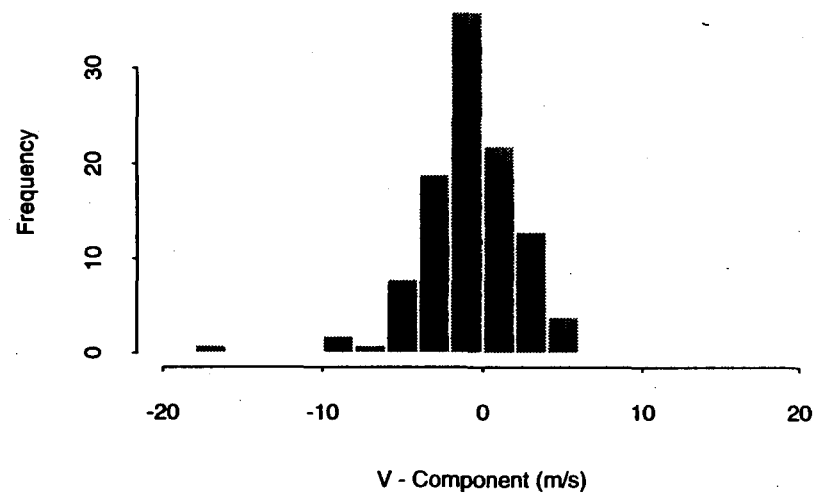
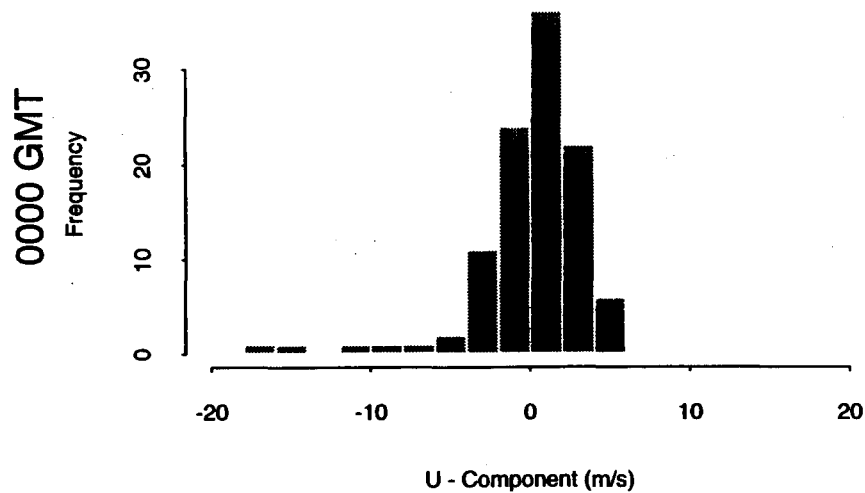
Radar Wind Profiler (m/s)

MYFR (Radiosonde) vs SDO (Radar Wind Profiler), Height=2000M



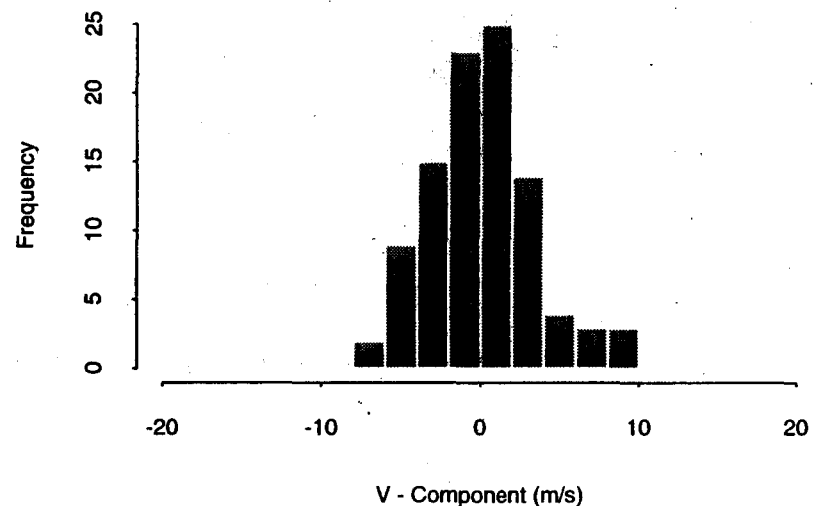
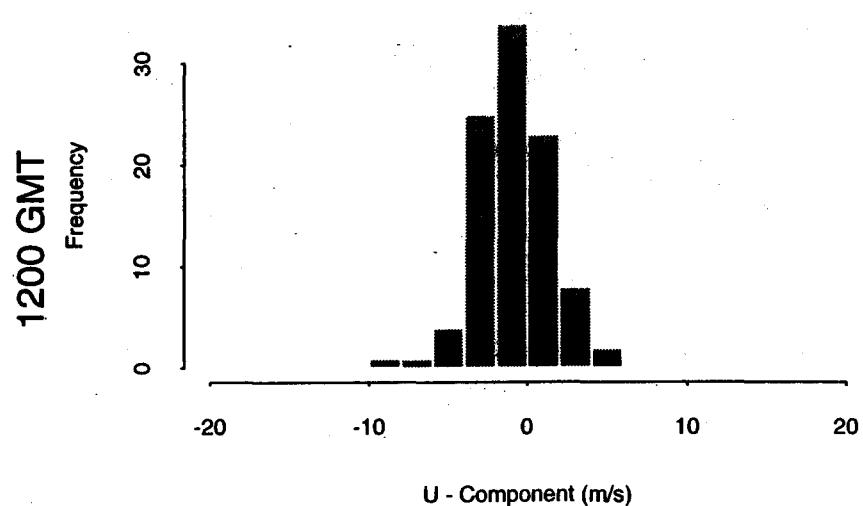
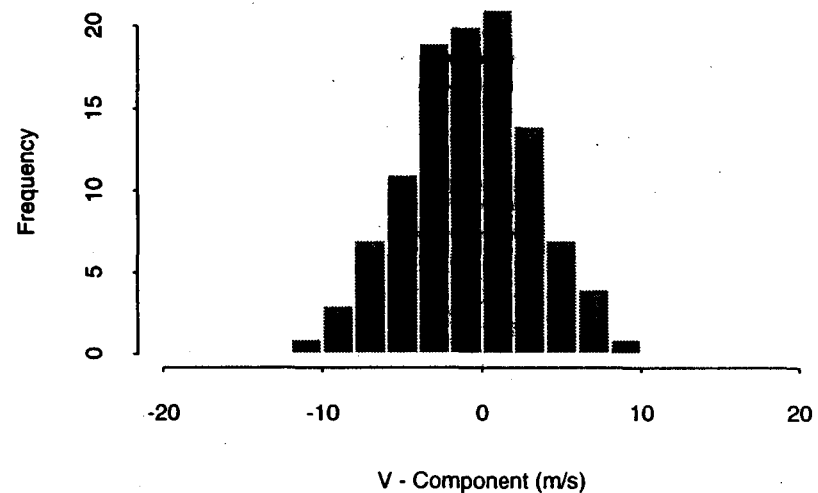
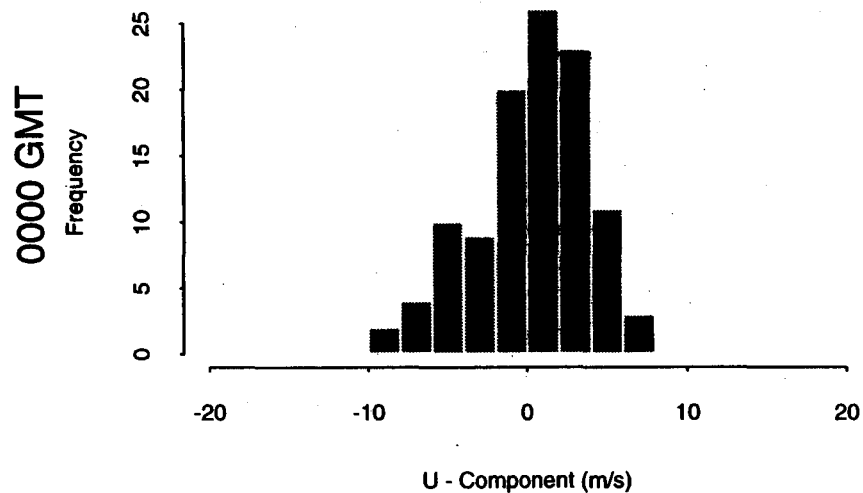
Frequency Distribution of Differences

SDO (Radar Wind Profiler) - MYFR (Radiosonde), 300M



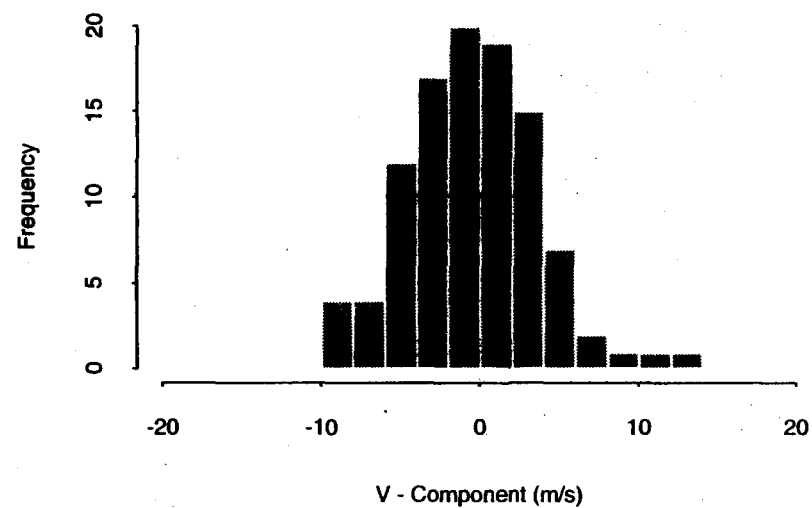
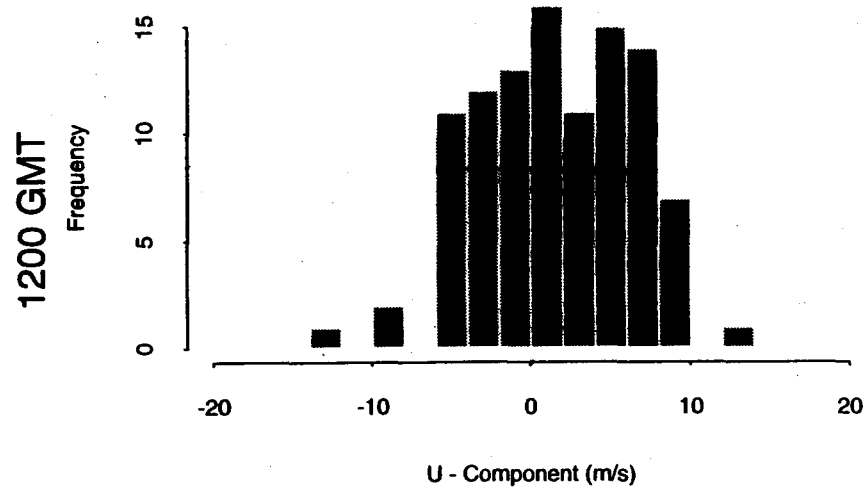
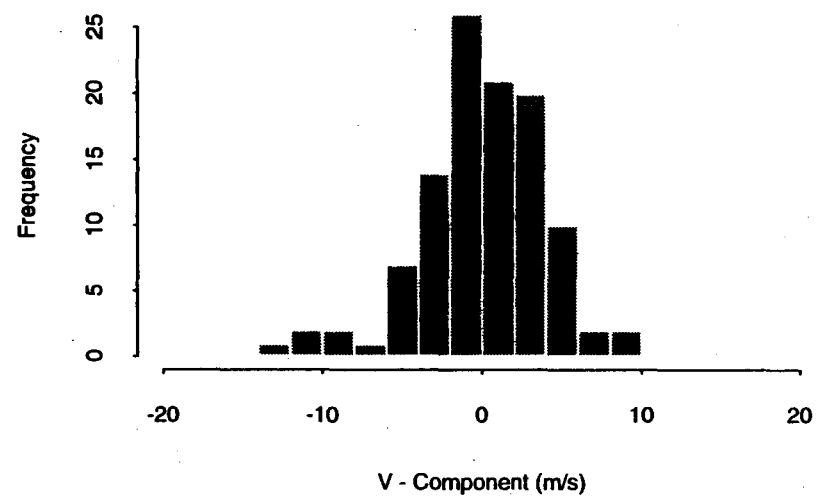
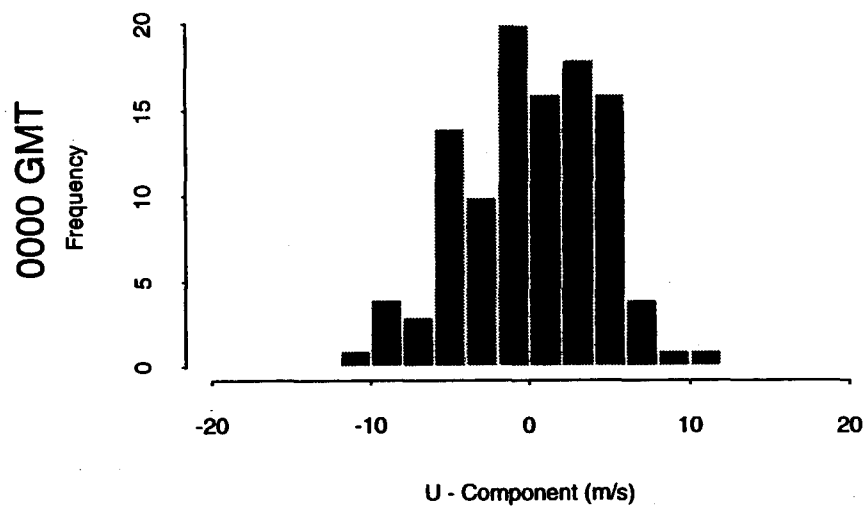
Frequency Distribution of Differences

SDO (Radar Wind Profiler) - MYFR (Radiosonde), 1000M



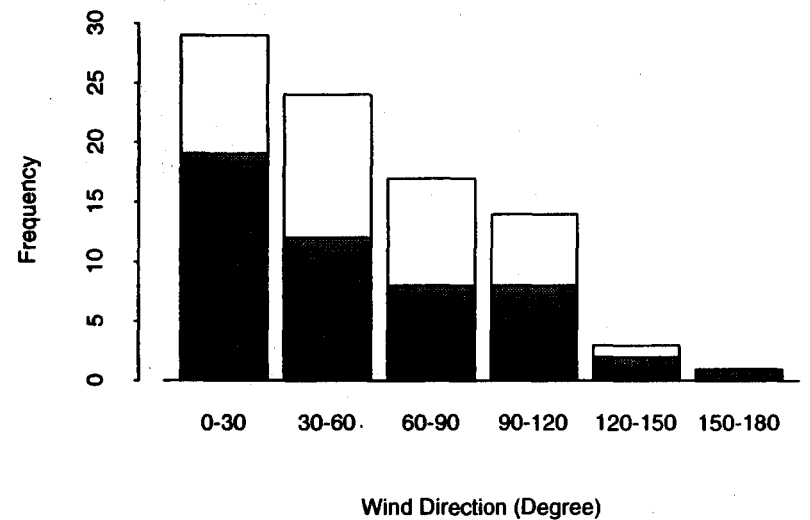
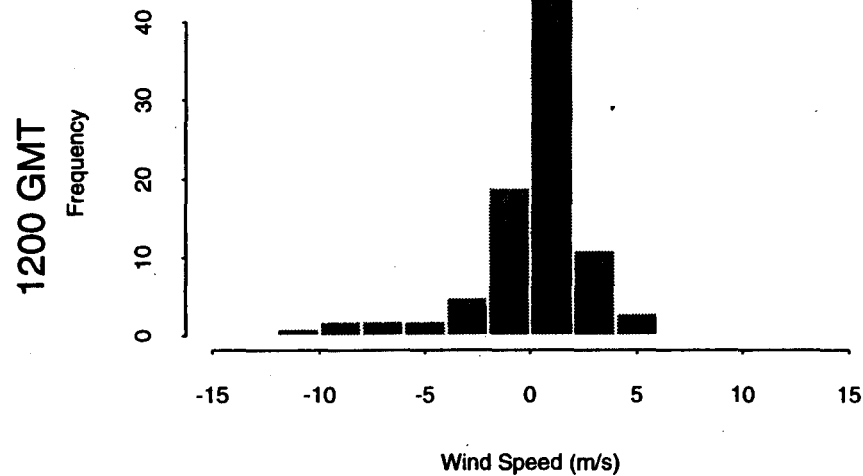
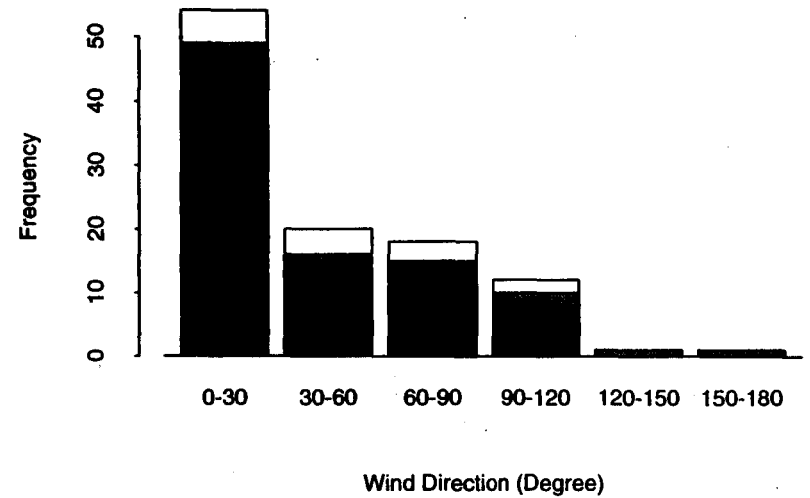
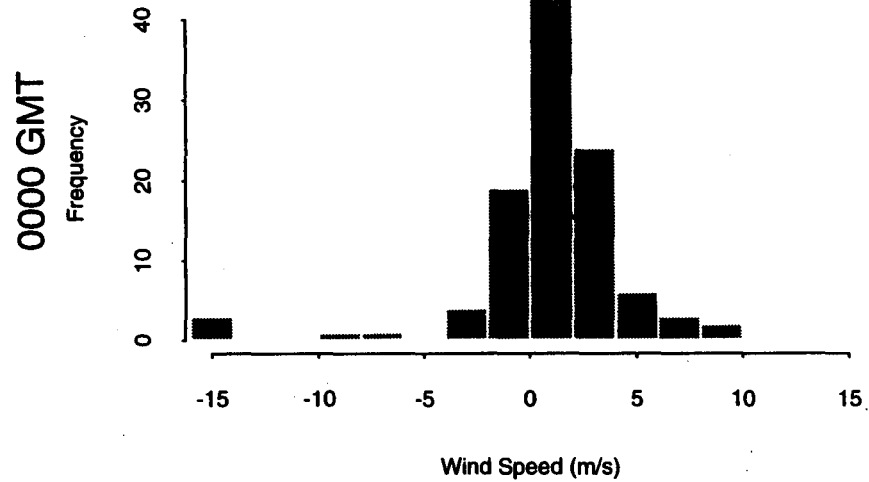
Frequency Distribution of Differences

SDO (Radar Wind Profiler) - MYFR (Radiosonde), 2000M



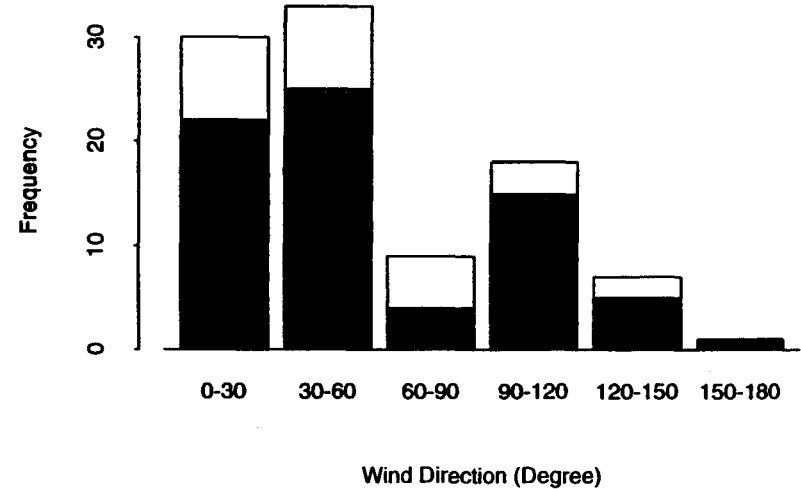
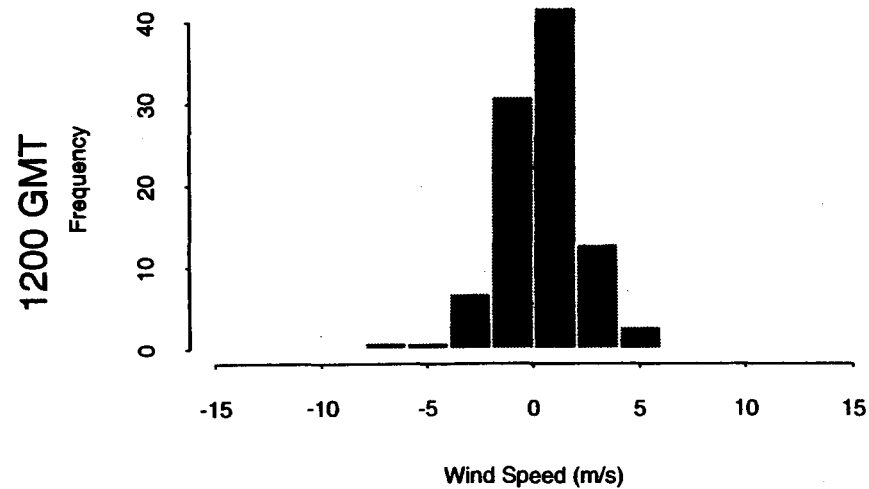
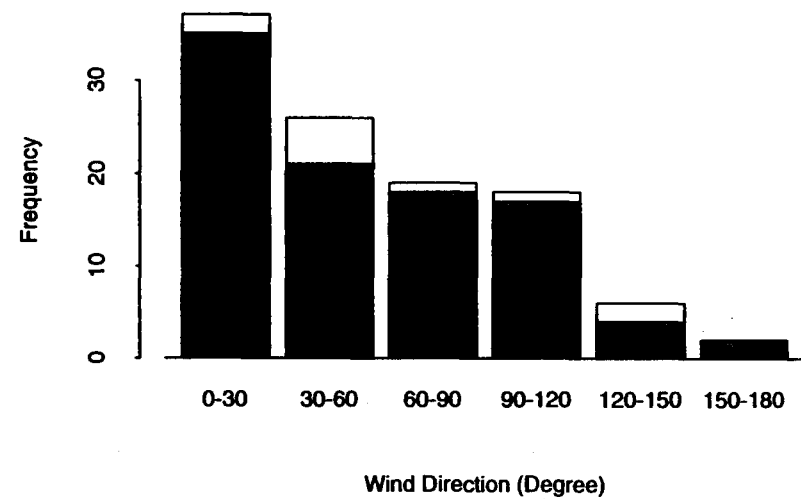
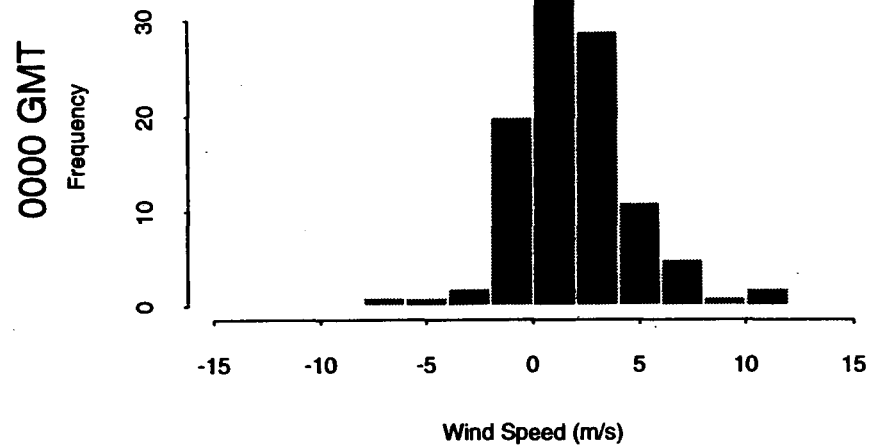
Frequency Distribution of Differences

SDO (Radar Wind Profiler) - MYFR (Radiosonde), 300M



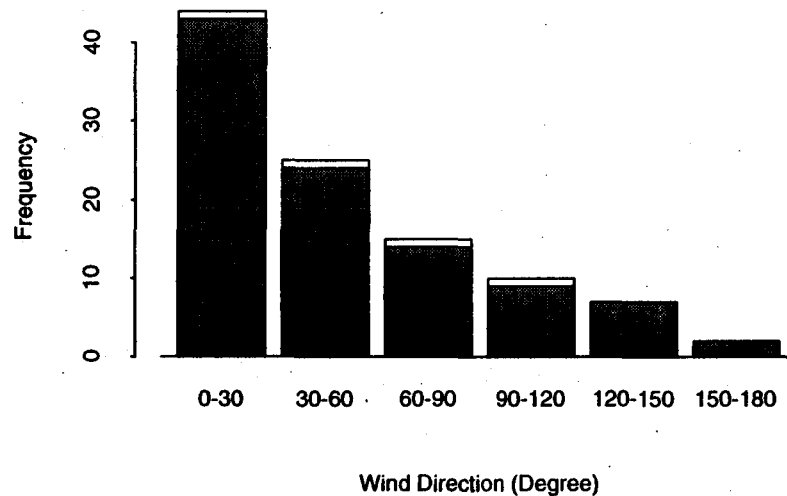
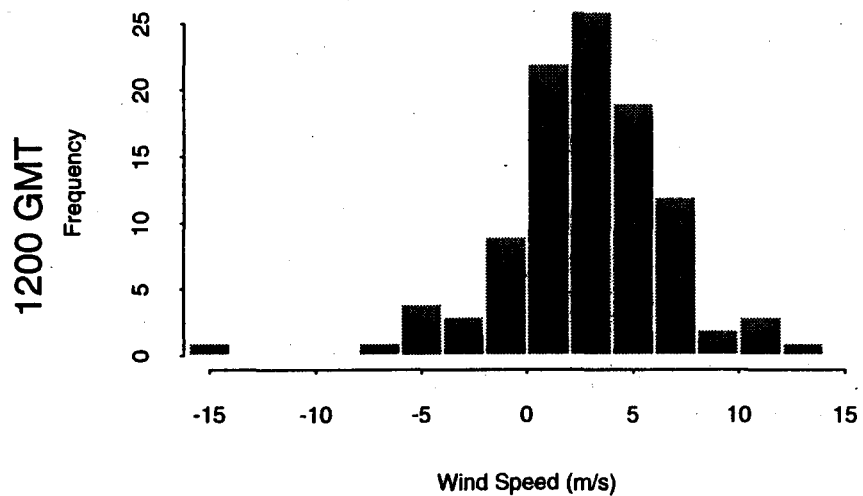
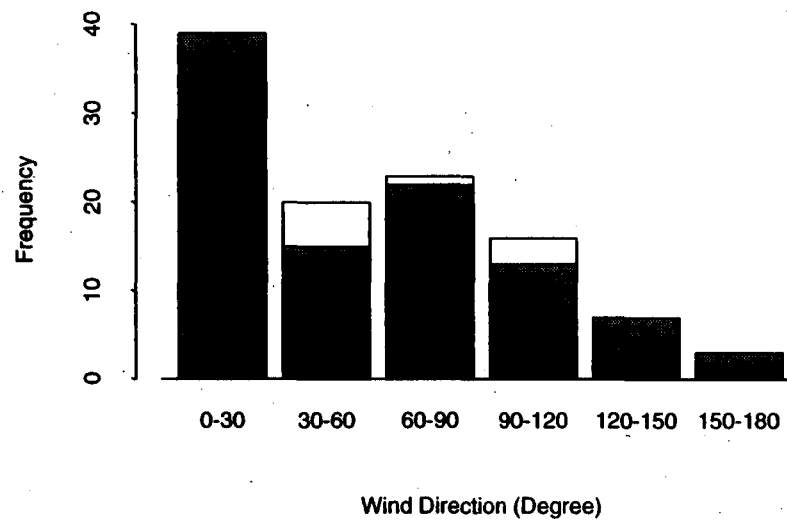
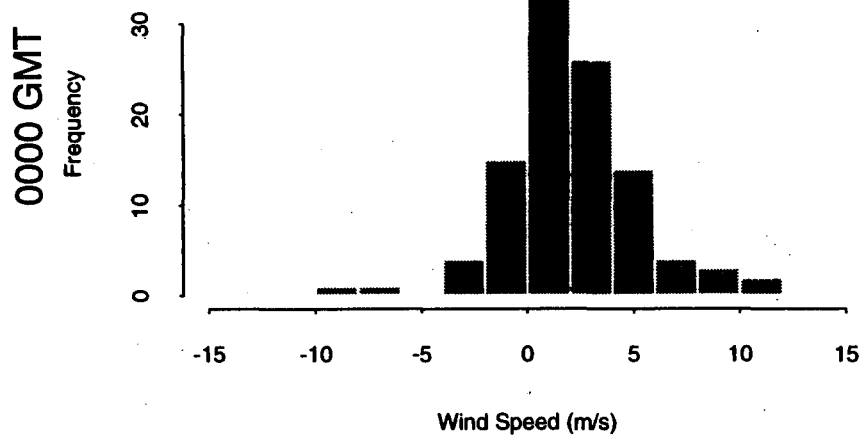
Frequency Distribution of Differences

SDO (Radar Wind Profiler) - MYFR (Radiosonde), 1000M

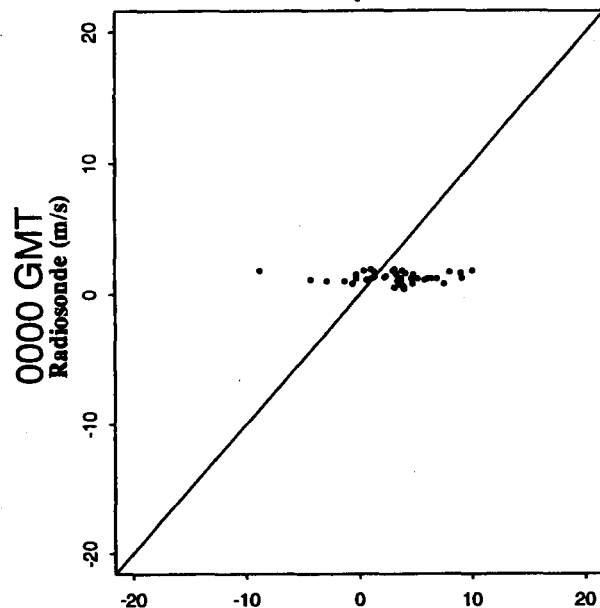


Frequency Distribution of Differences

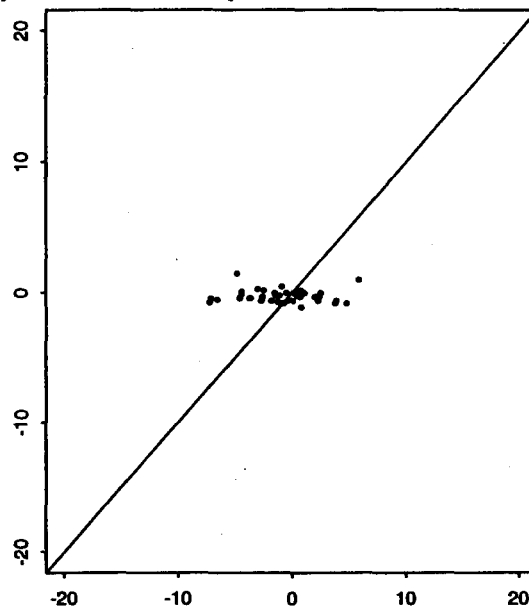
SDO (Radar Wind Profiler) - MYFR (Radiosonde), 2000M



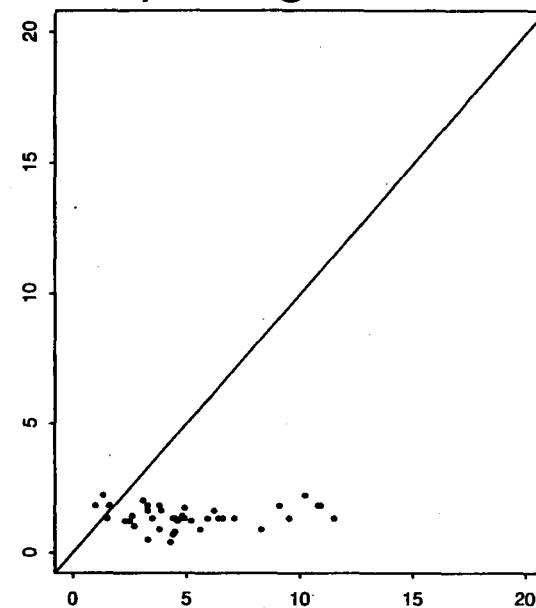
MYFR (Radiosonde) vs SCI (Radar Wind Profiler), Height=100M



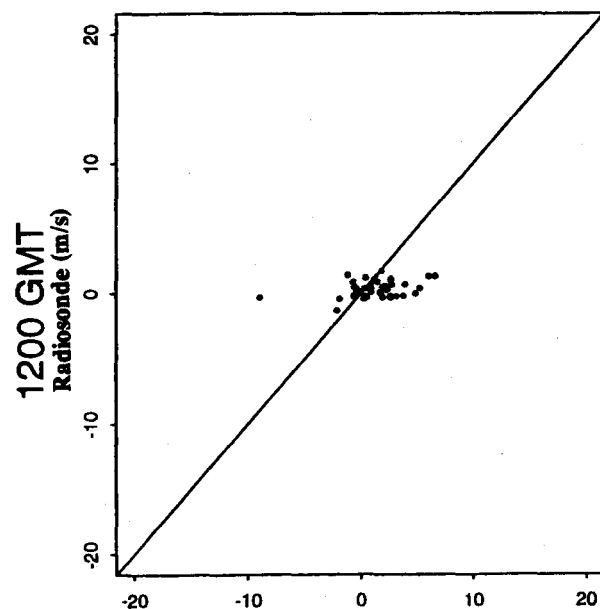
U-Component (m/s)



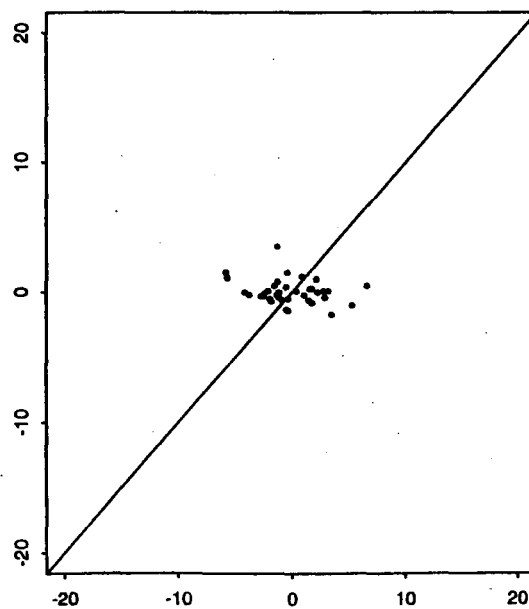
V-Component (m/s)



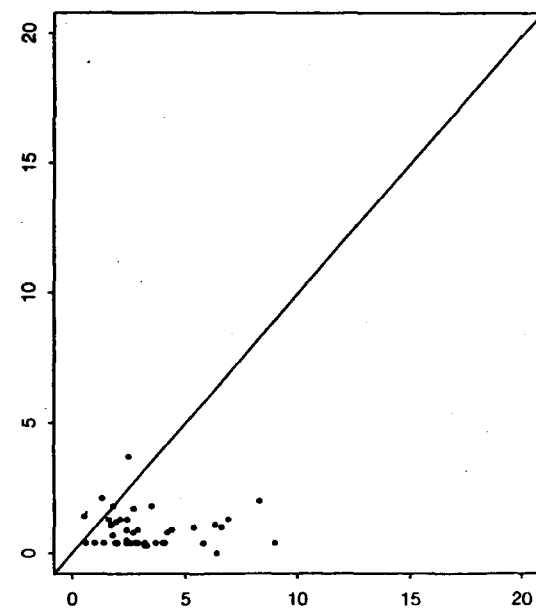
Wind Speed (m/s)



Radar Wind Profiler (m/s)

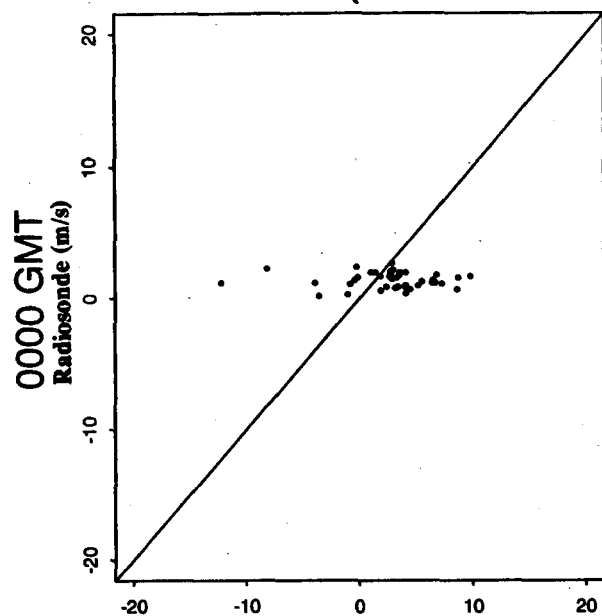


Radar Wind Profiler (m/s)

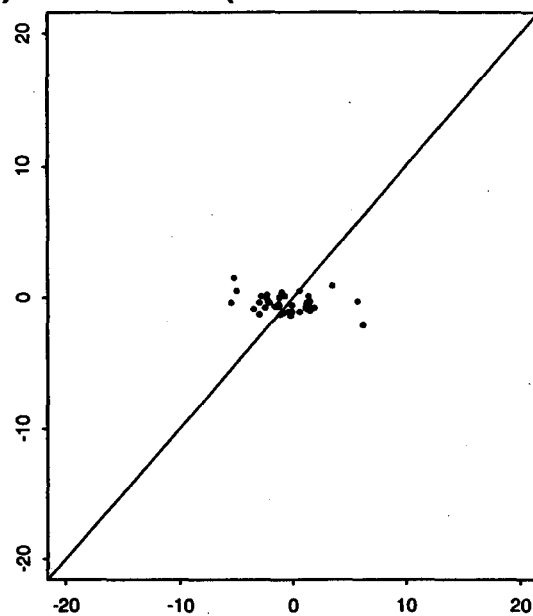


Radar Wind Profiler (m/s)

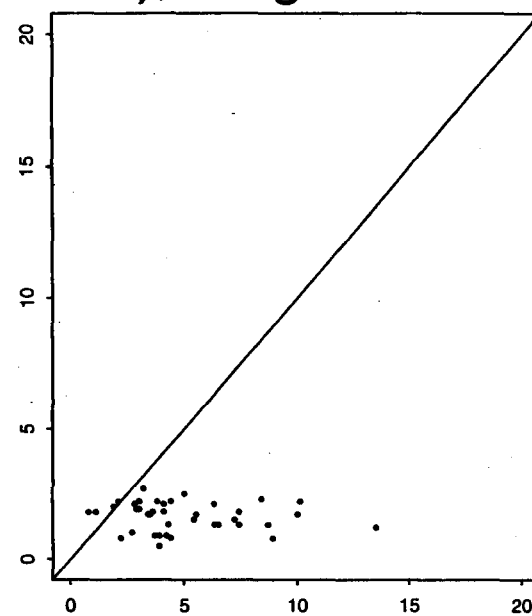
MYFR (Radiosonde) vs SCI (Radar Wind Profiler), Height=300M



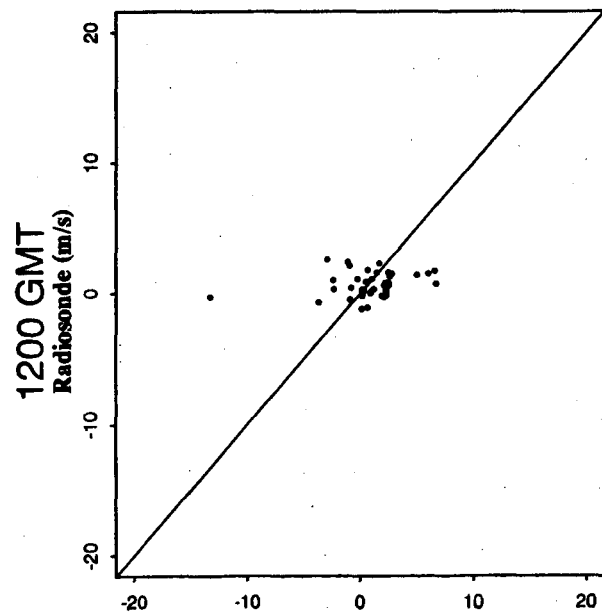
U-Component (m/s)



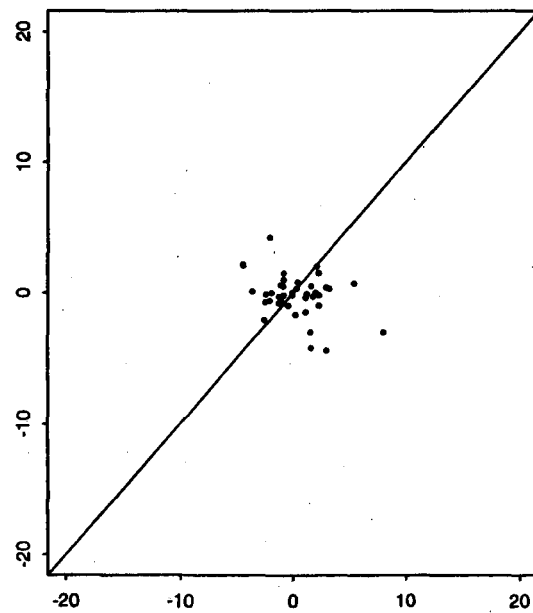
V-Component (m/s)



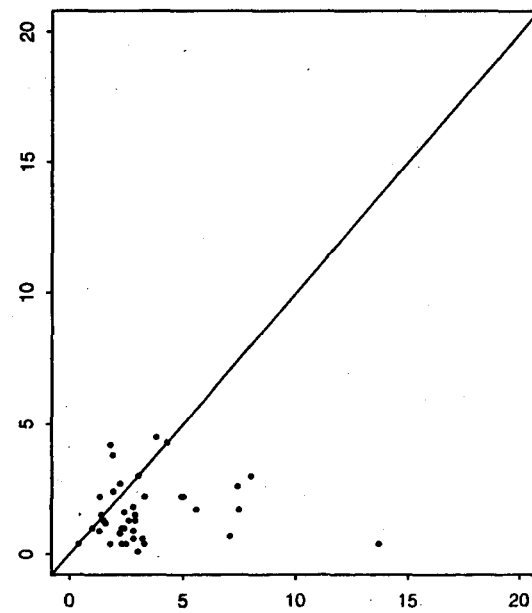
Wind Speed (m/s)



Radar Wind Profiler (m/s)

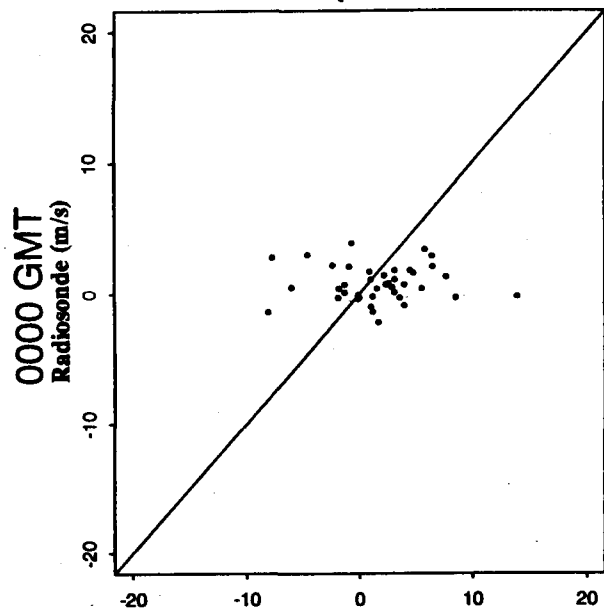


Radar Wind Profiler (m/s)

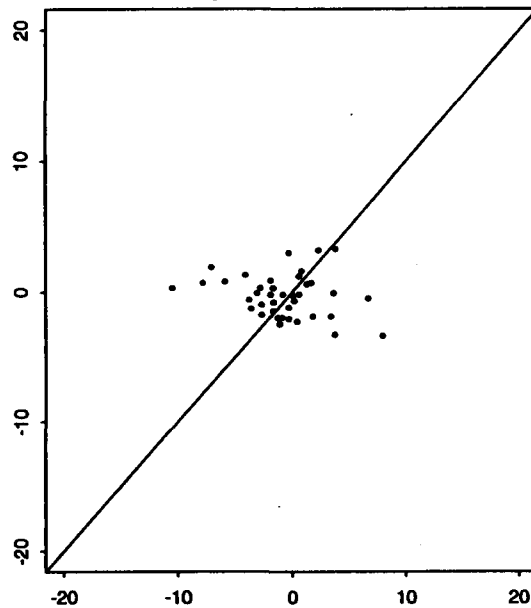


Radar Wind Profiler (m/s)

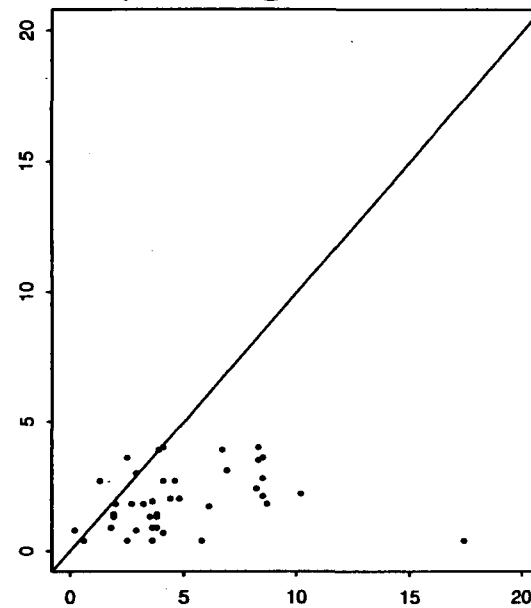
MYFR (Radiosonde) vs SCI (Radar Wind Profiler), Height=1000M



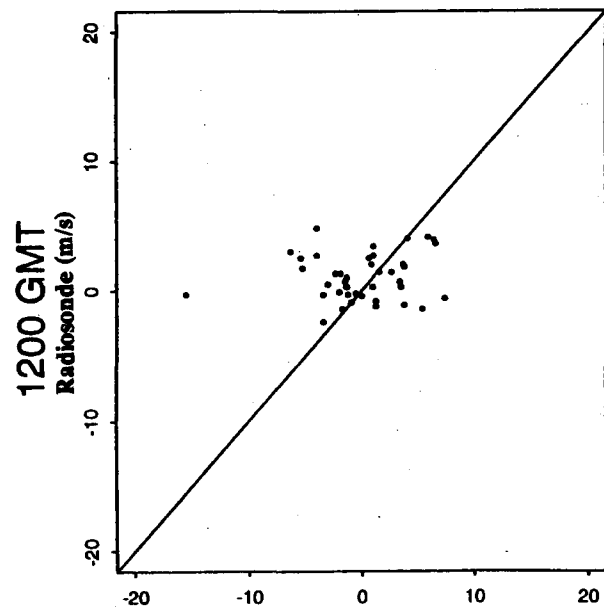
U-Component (m/s)



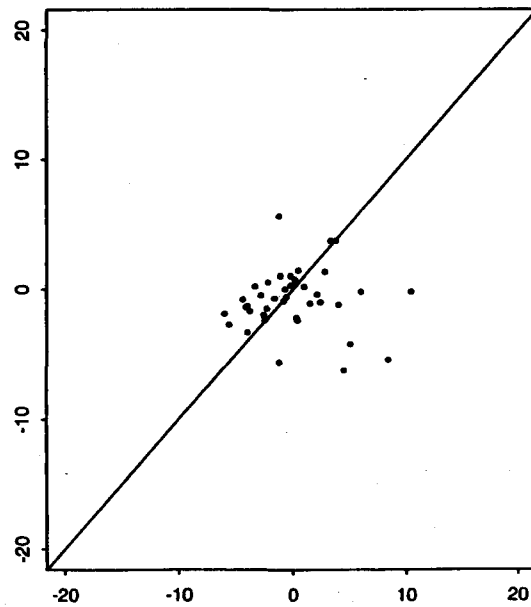
V-Component (m/s)



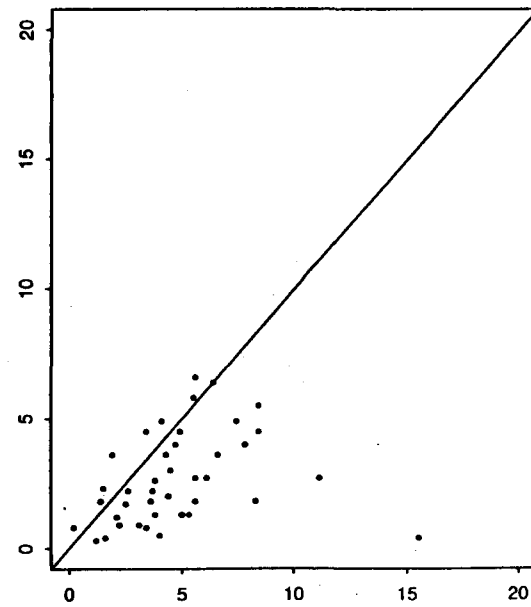
Wind Speed (m/s)



Radar Wind Profiler (m/s)

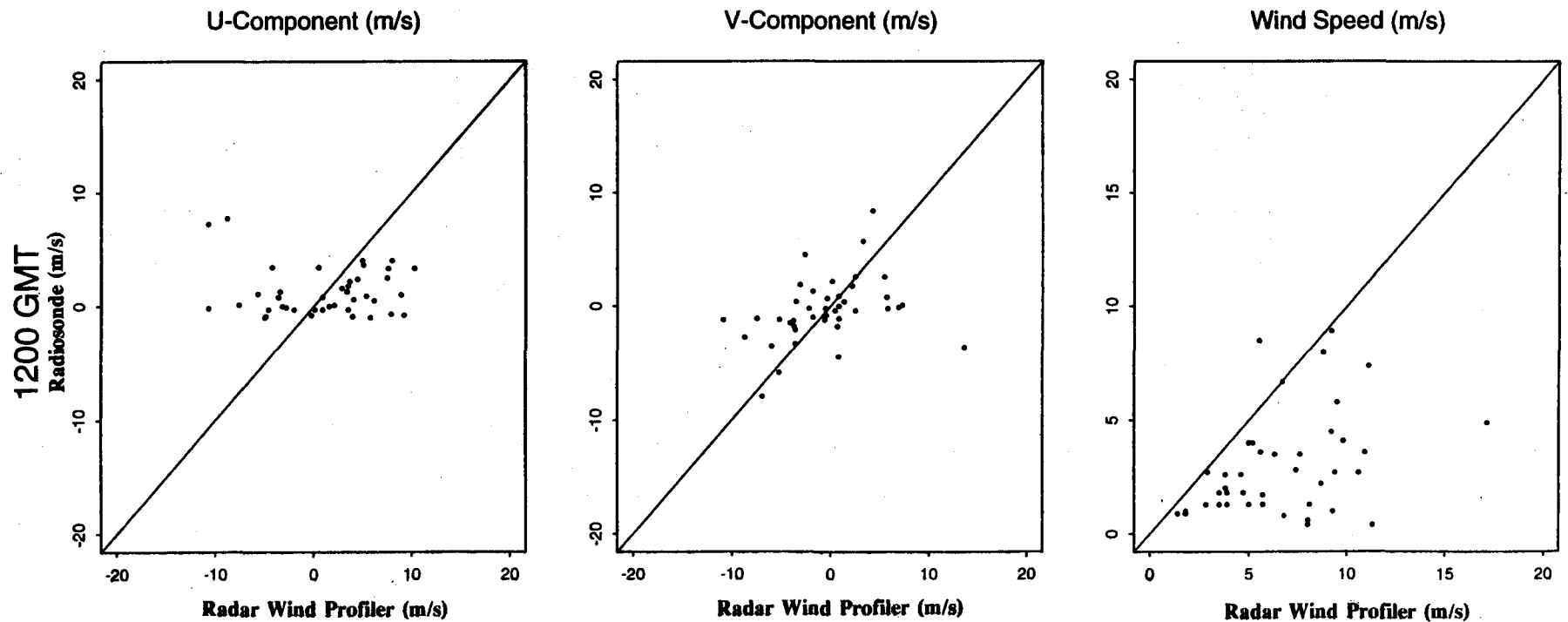
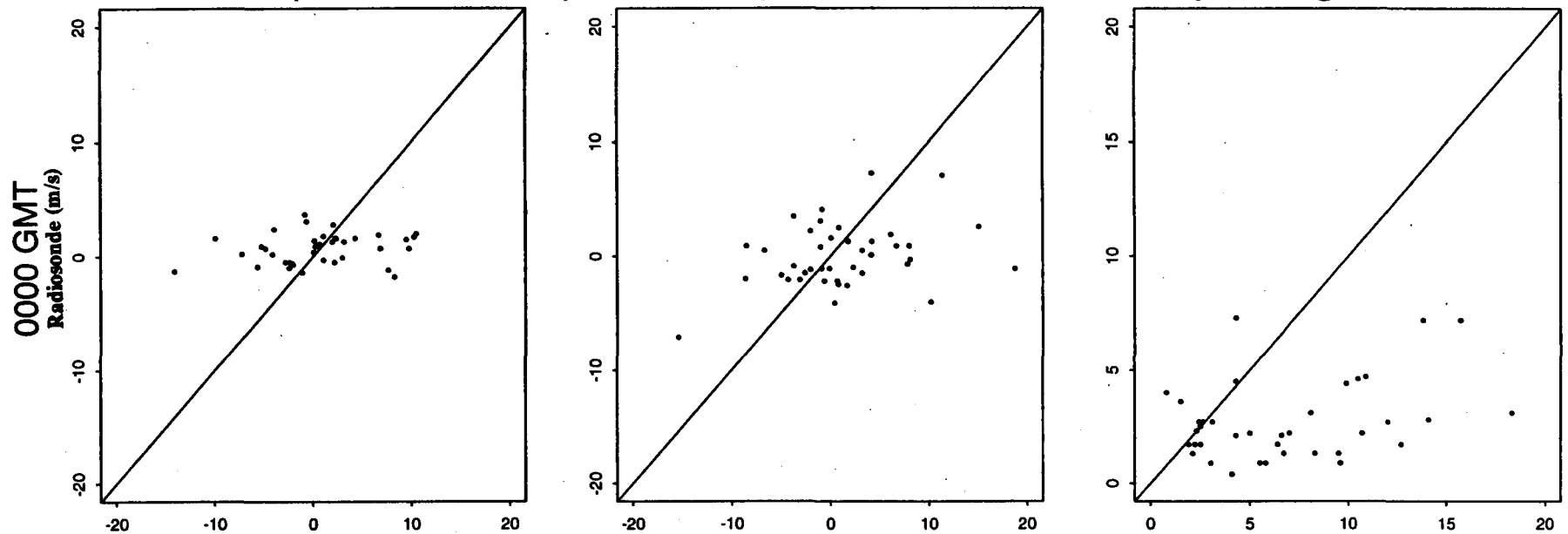


Radar Wind Profiler (m/s)



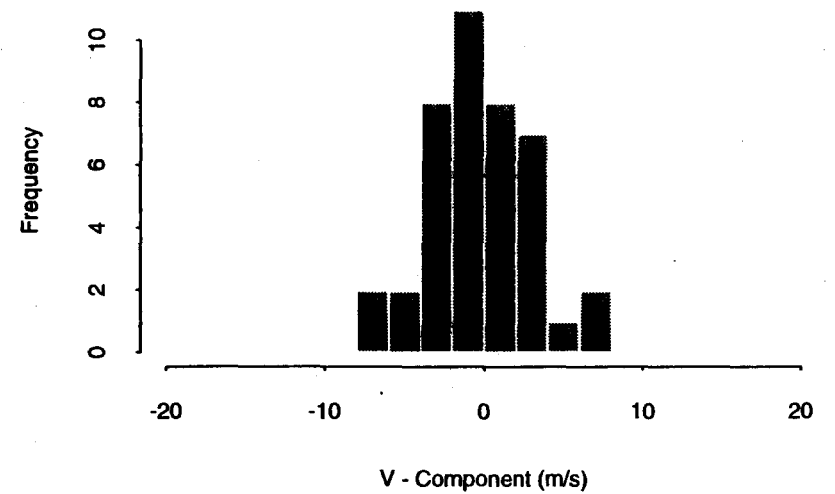
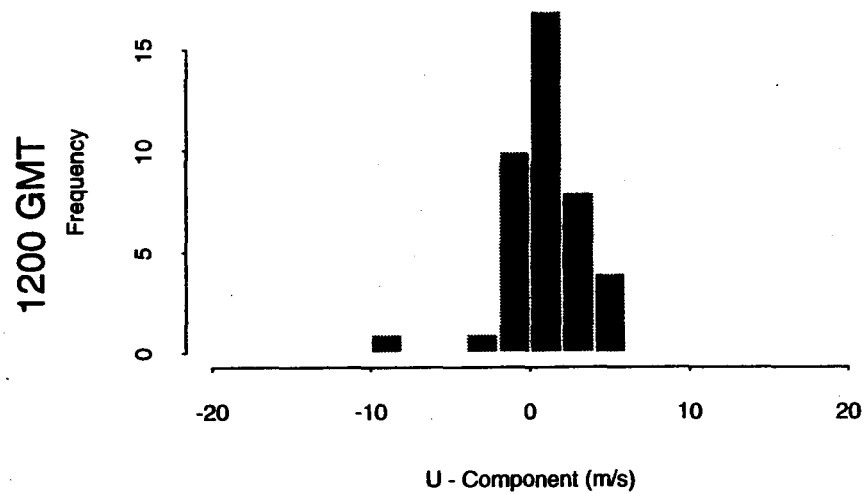
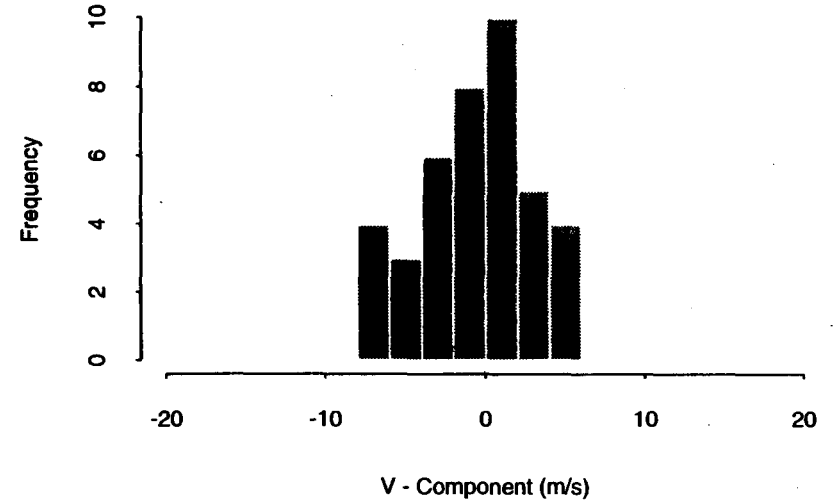
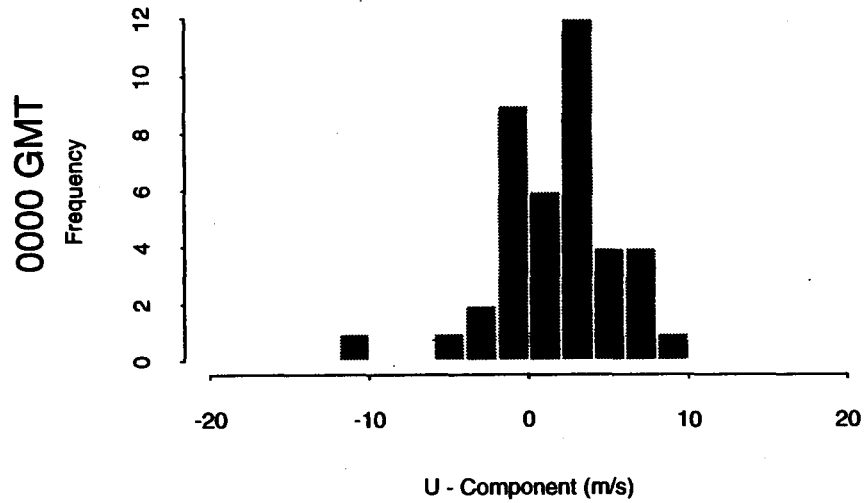
Radar Wind Profiler (m/s)

MYFR (Radiosonde) vs SCI (Radar Wind Profiler), Height=2000M



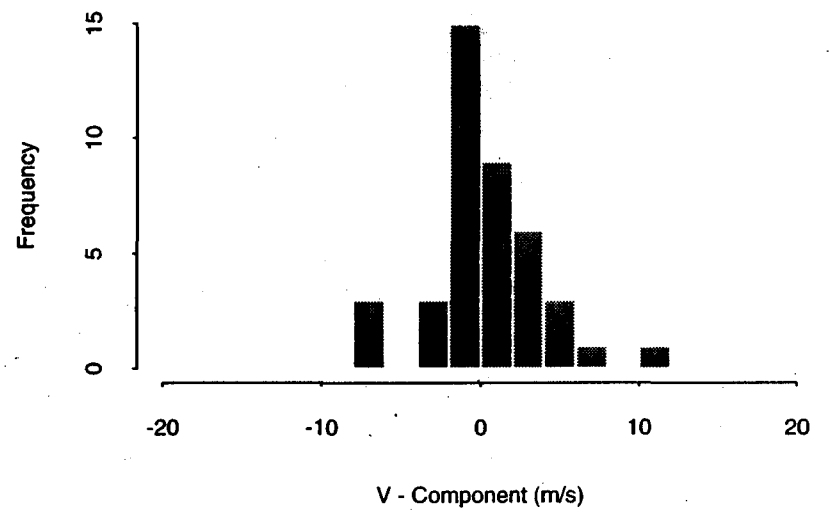
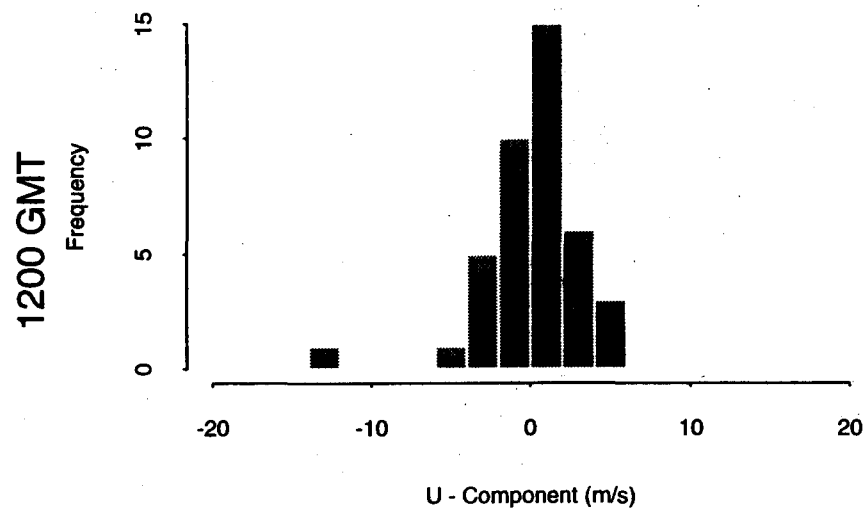
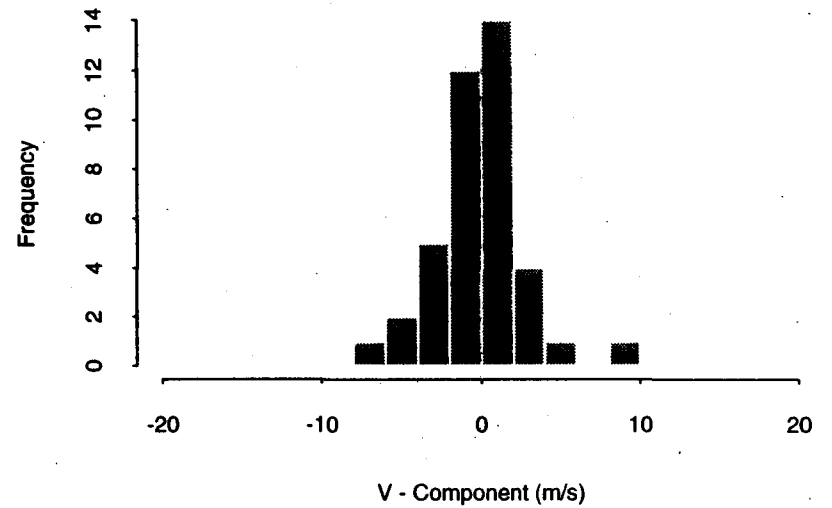
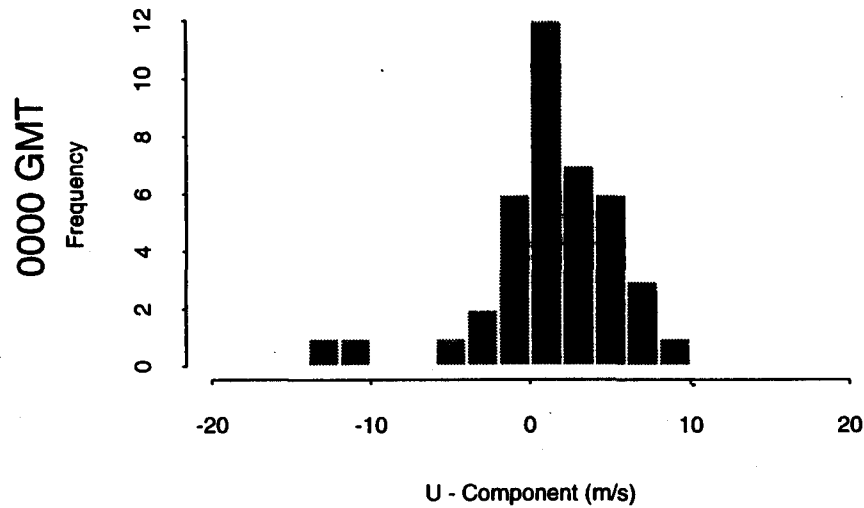
Frequency Distribution of Differences

SCI (Radar Wind Profiler) - MYFR (Radiosonde), 100M



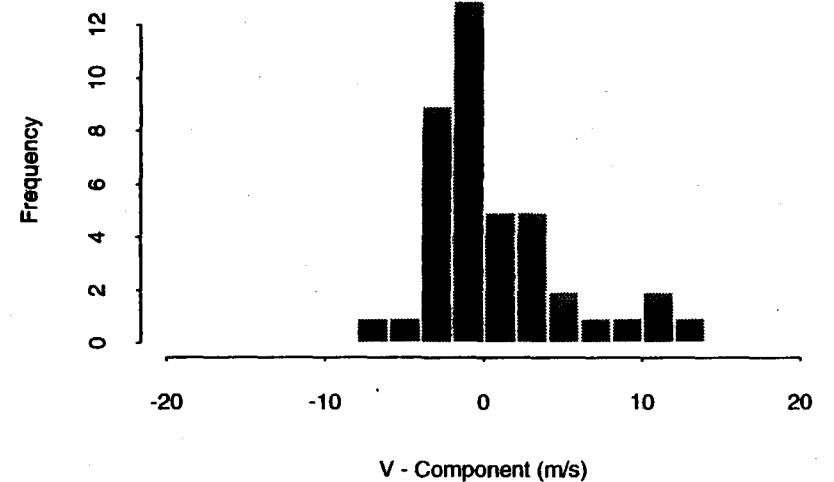
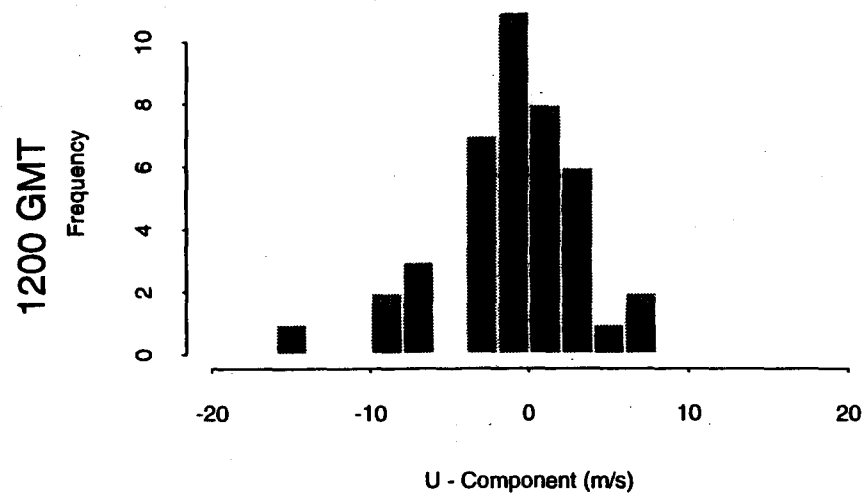
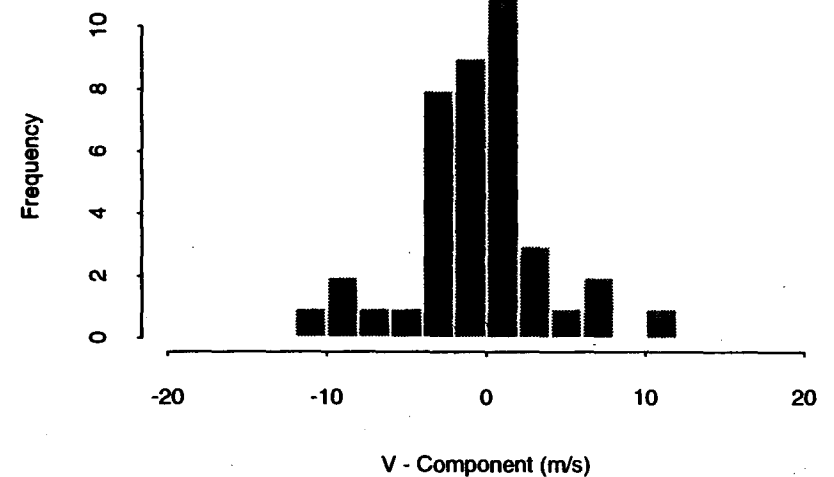
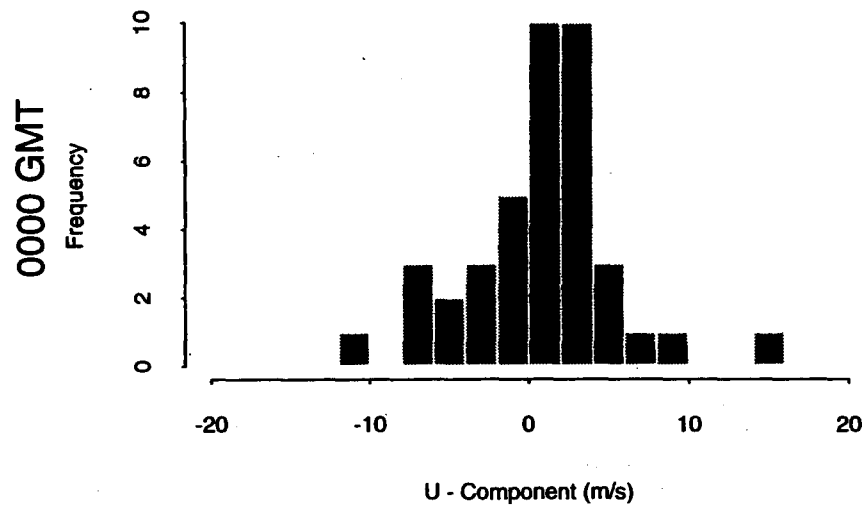
Frequency Distribution of Differences

SCI (Radar Wind Profiler) - MYFR (Radiosonde), 300M



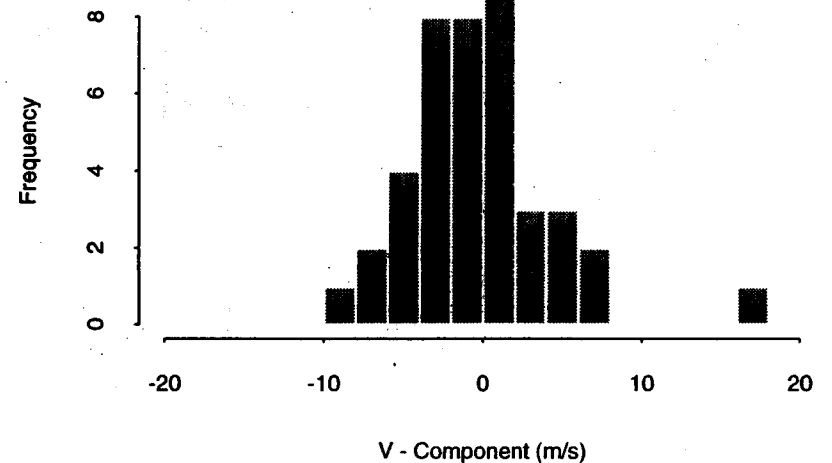
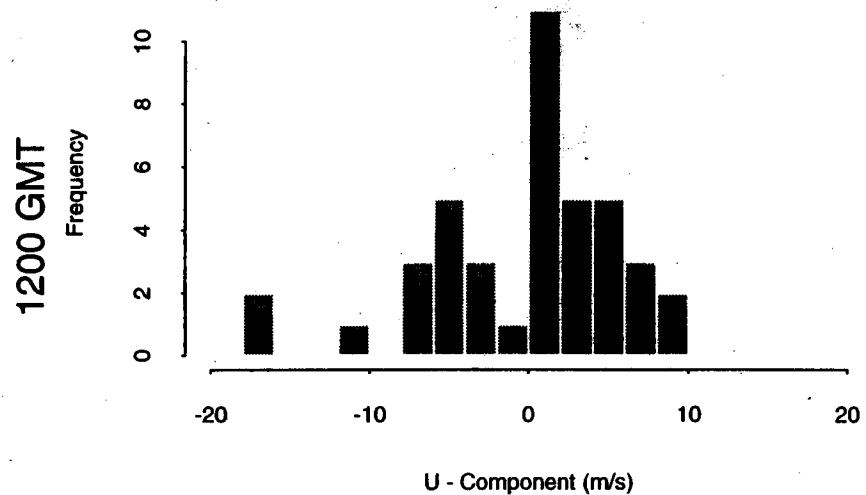
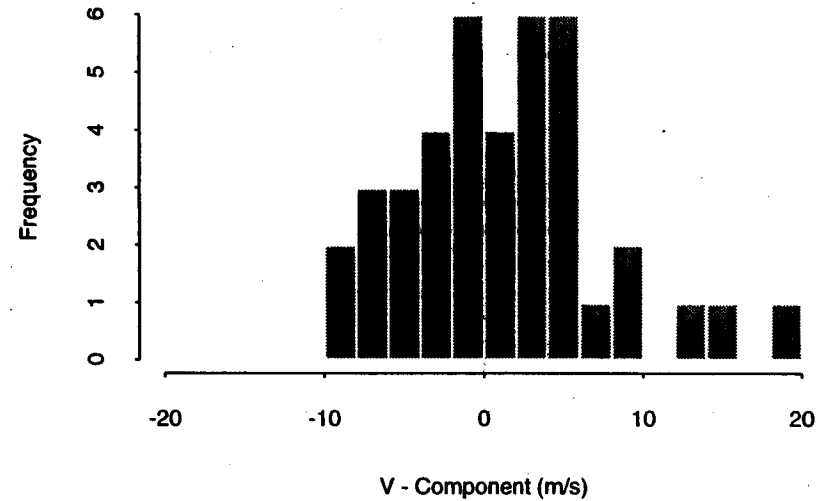
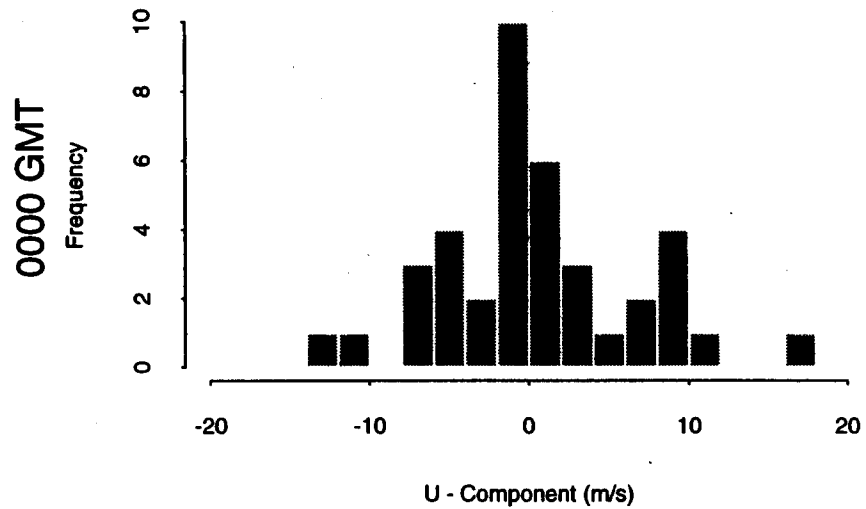
Frequency Distribution of Differences

SCI (Radar Wind Profiler) - MYFR (Radiosonde), 1000M



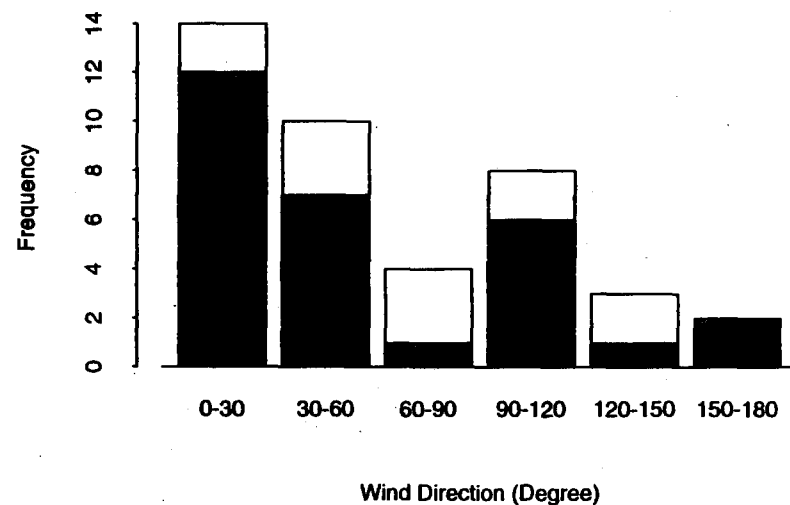
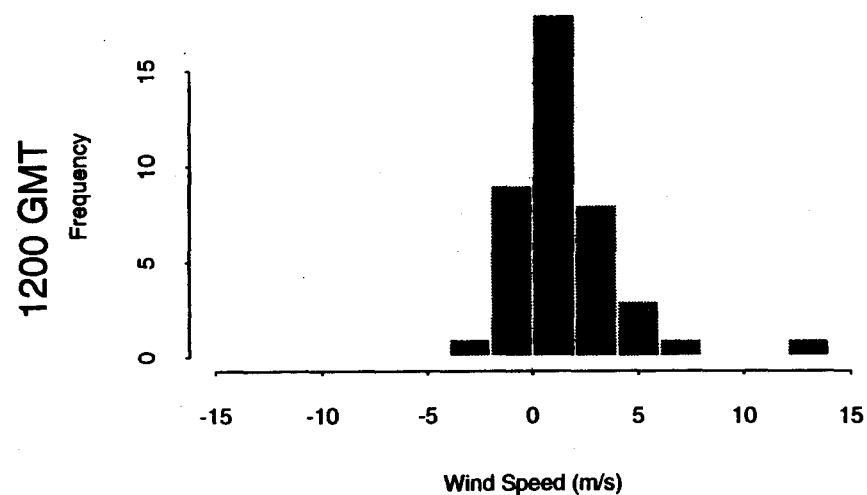
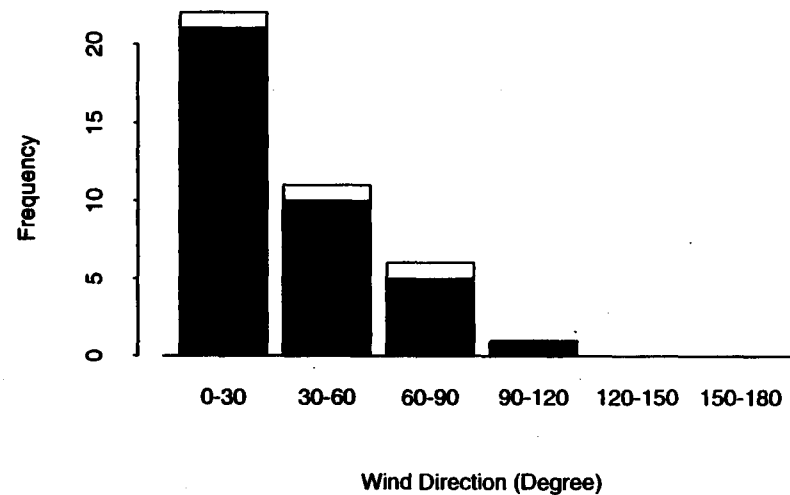
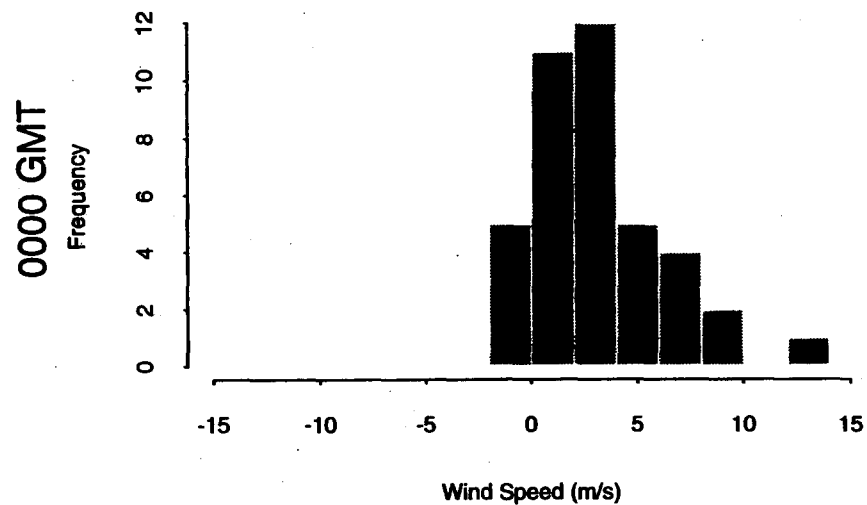
Frequency Distribution of Differences

SCI (Radar Wind Profiler) - MYFR (Radiosonde), 2000M



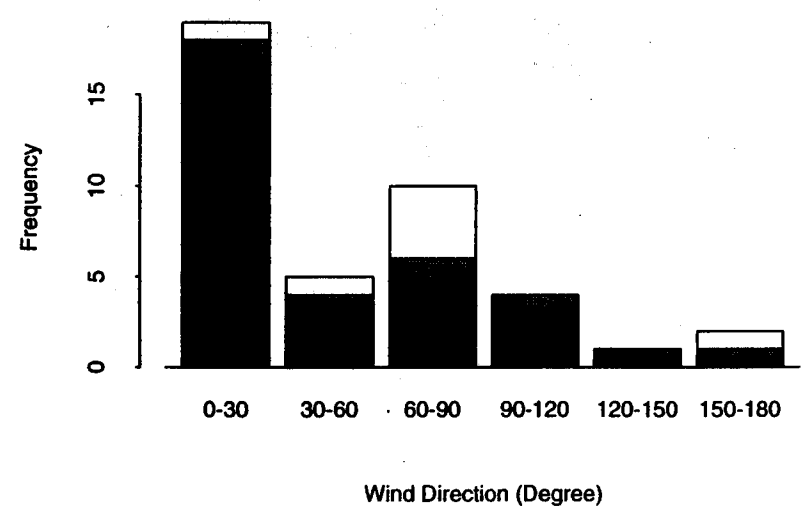
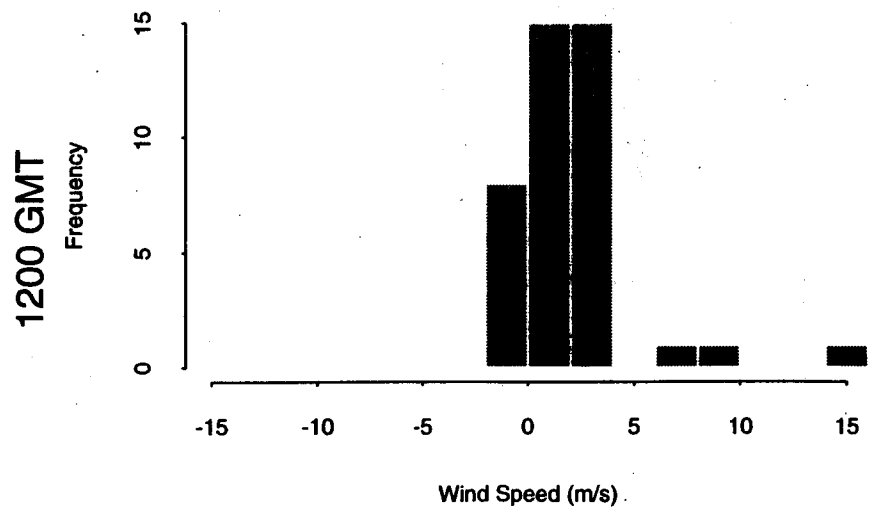
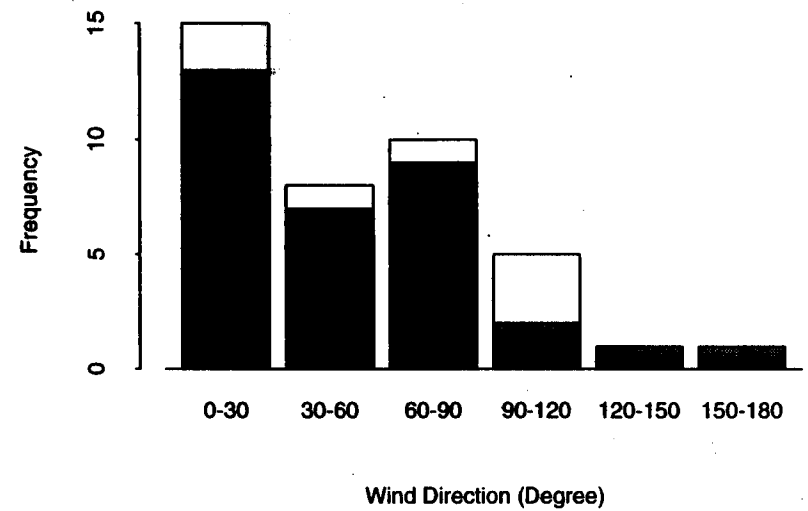
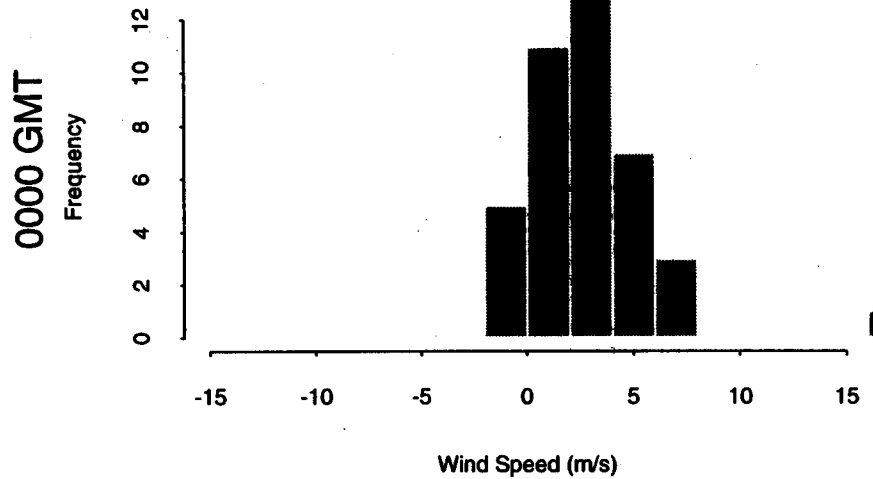
Frequency Distribution of Differences

SCI (Radar Wind Profiler) - MYFR (Radiosonde), 300M



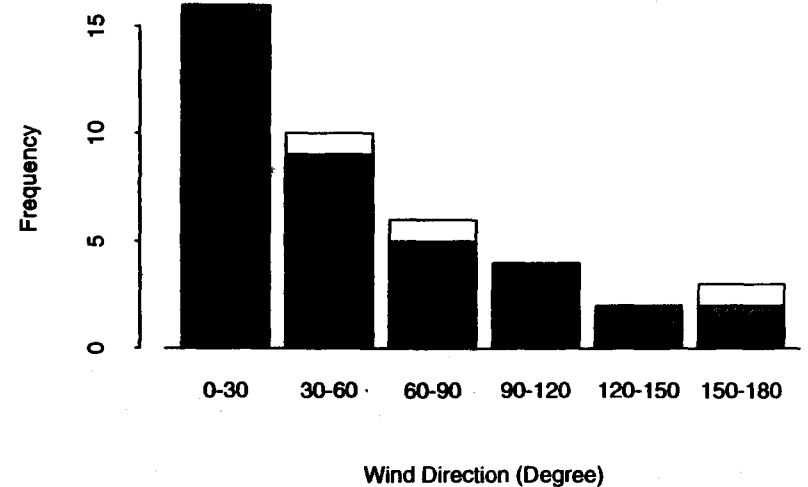
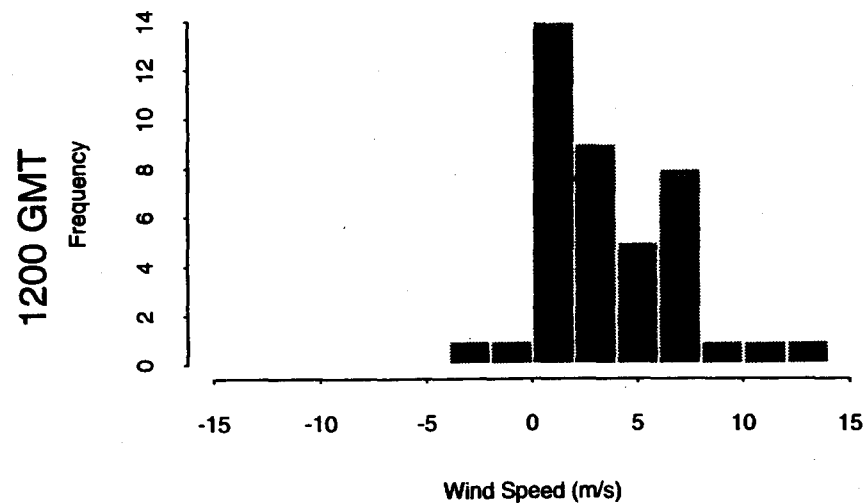
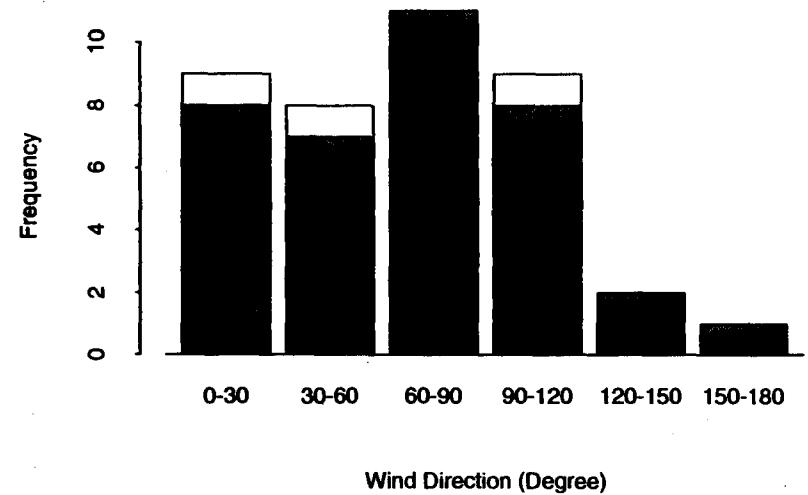
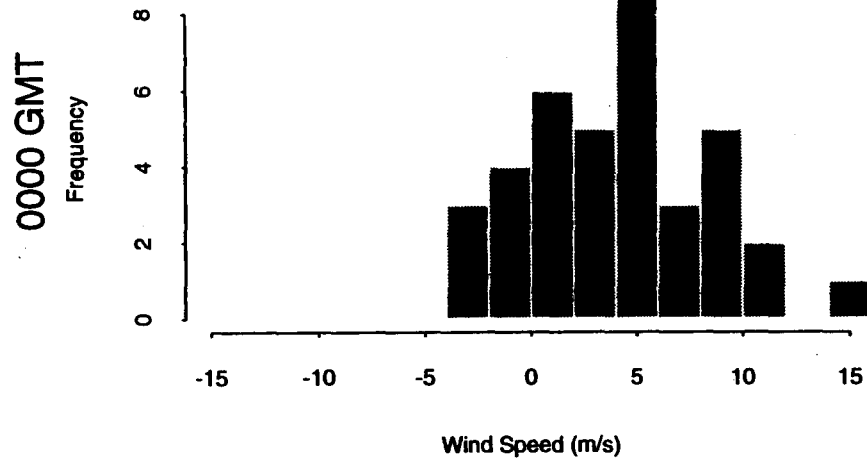
Frequency Distribution of Differences

SCI (Radar Wind Profiler) - MYFR (Radiosonde), 1000M

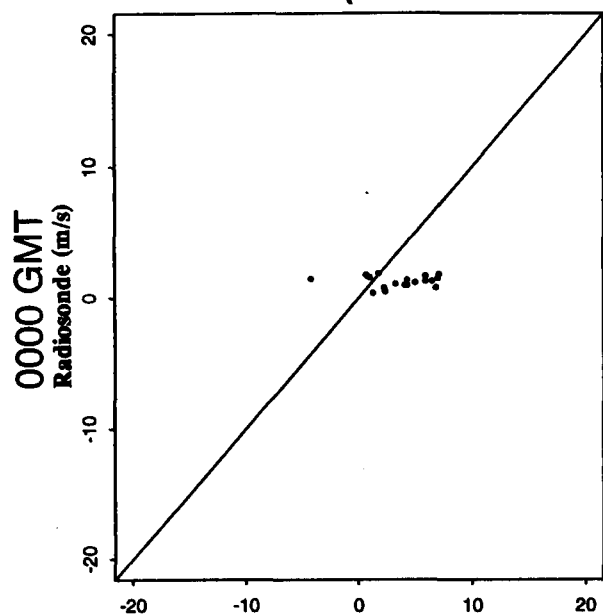


Frequency Distribution of Differences

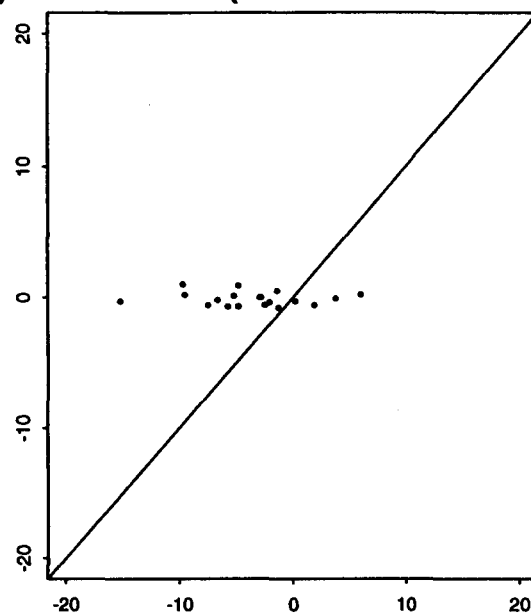
SCI (Radar Wind Profiler) - MYFR (Radiosonde), 2000M



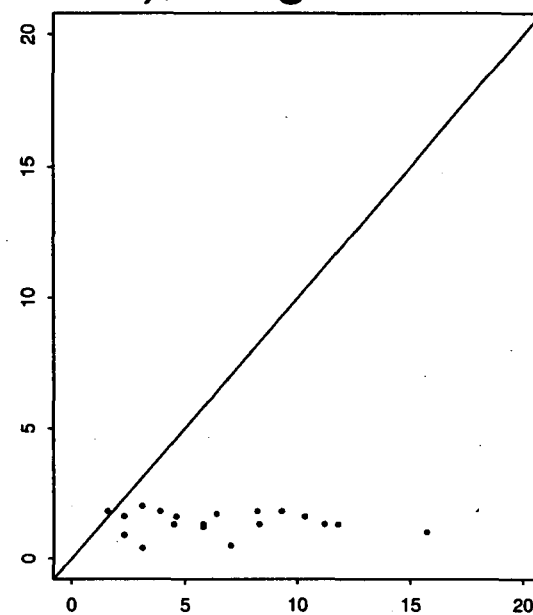
MYFR (Radiosonde) vs PTL (Radar Wind Profiler), Height=100M



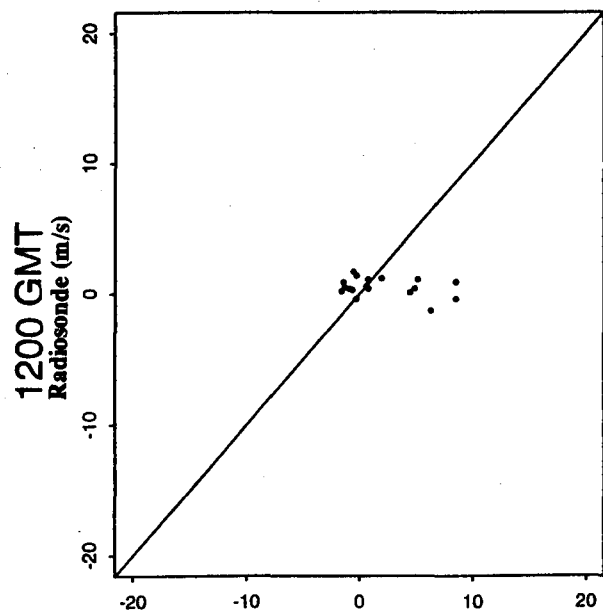
U-Component (m/s)



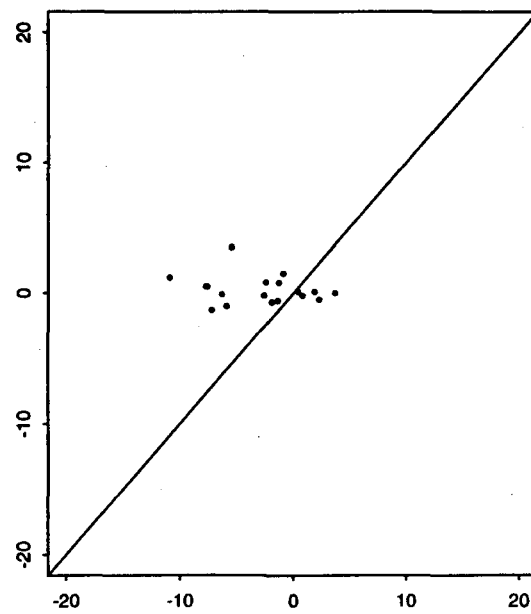
V-Component (m/s)



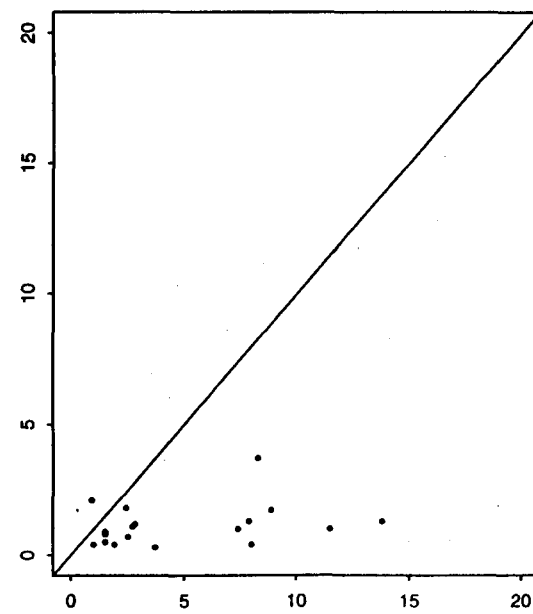
Wind Speed (m/s)



Radar Wind Profiler (m/s)

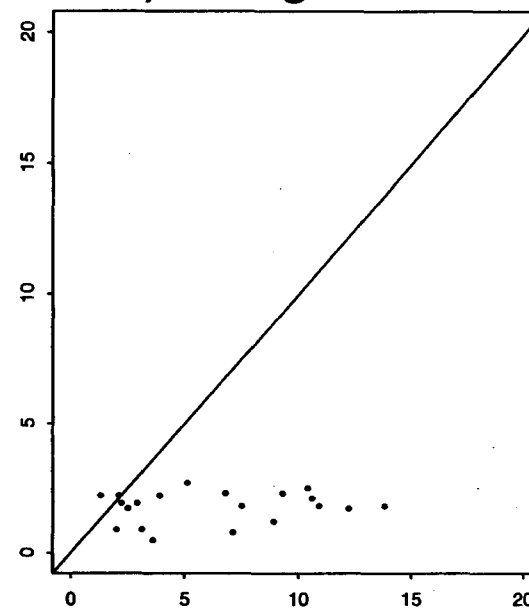
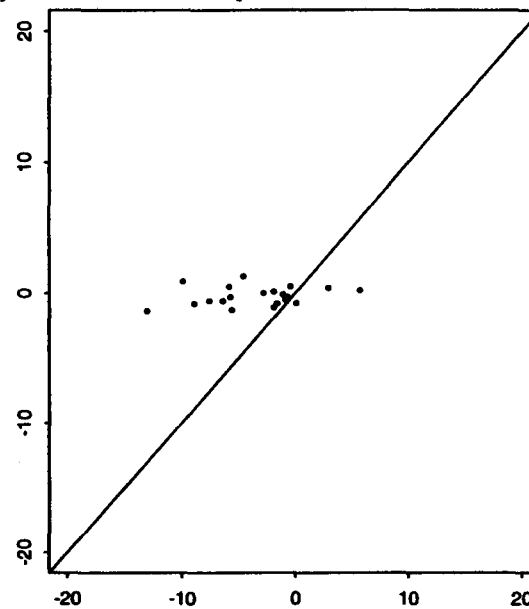
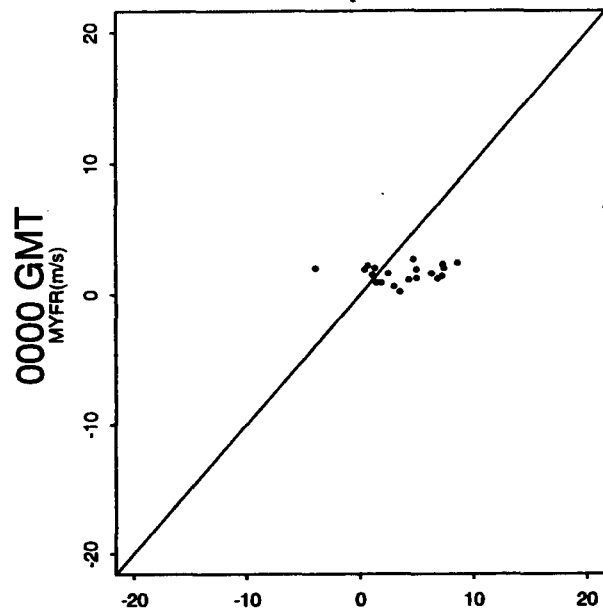


Radar Wind Profiler (m/s)



Radar Wind Profiler (m/s)

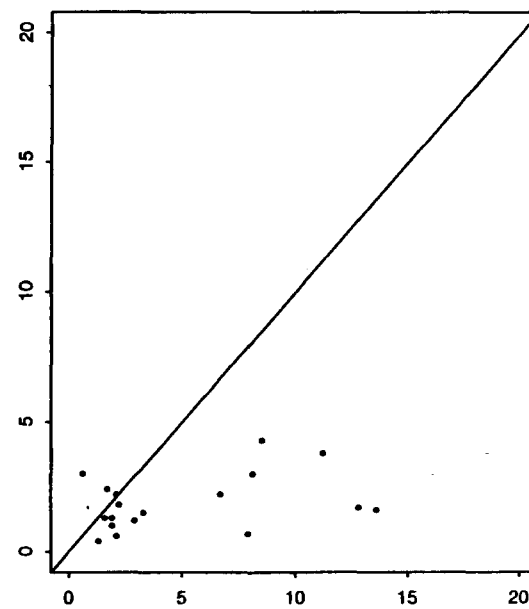
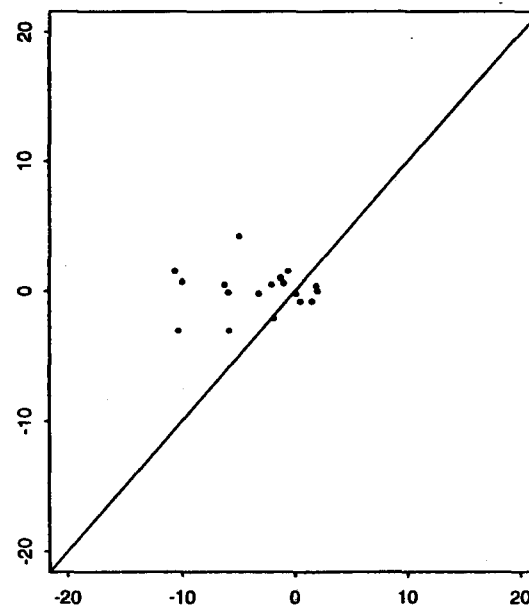
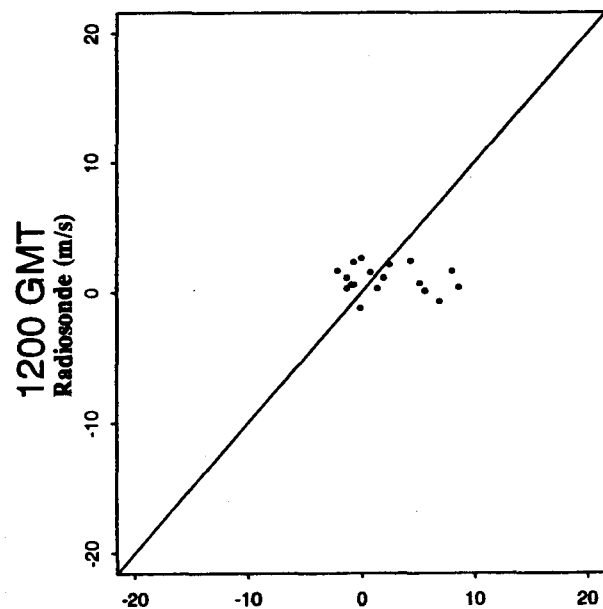
MYFR (Radiosonde) vs PTL (Radar Wind Profiler), Height=300M



U-Component (m/s)

V-Component (m/s)

Wind Speed (m/s)

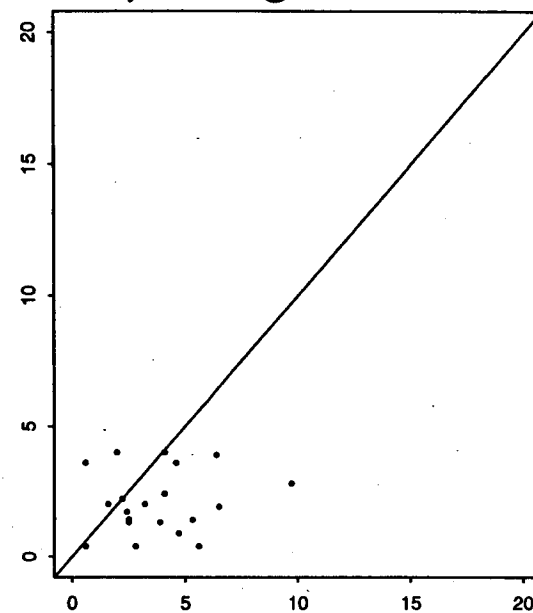
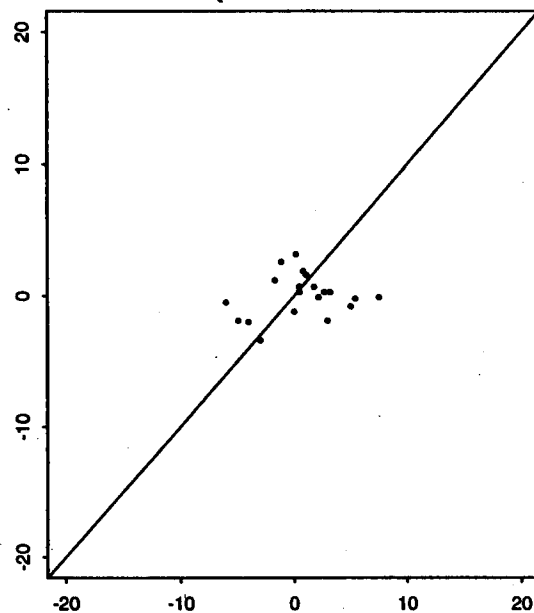
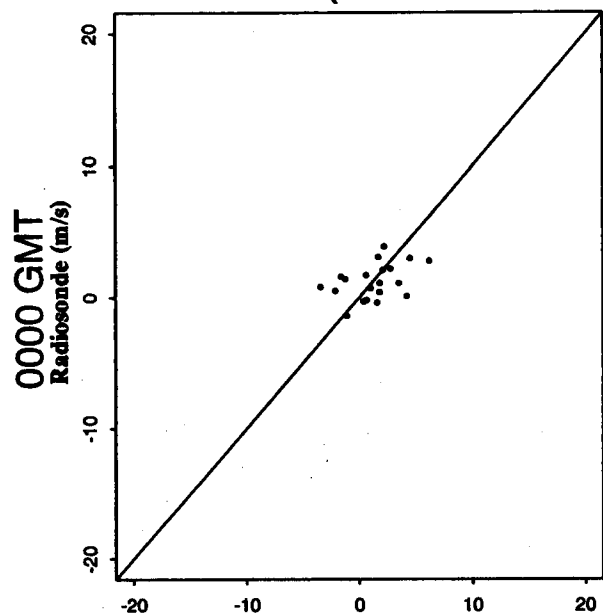


Radar Wind Profiler (m/s)

Radar Wind Profiler (m/s)

Radar Wind Profiler (m/s)

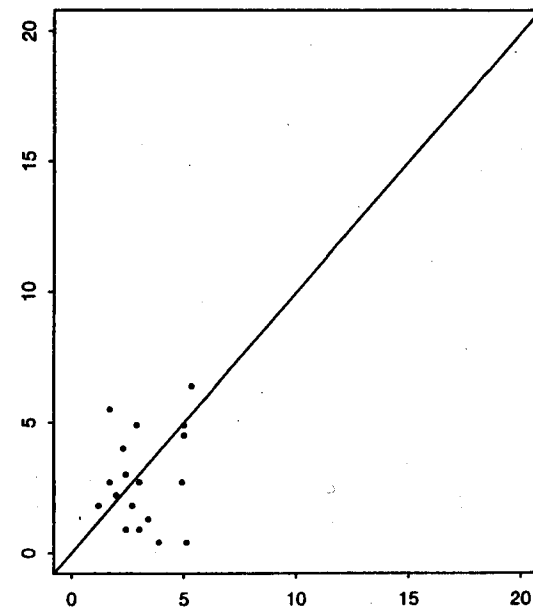
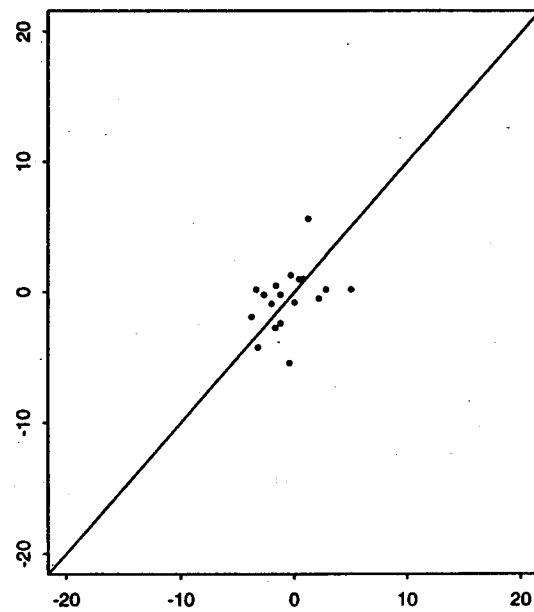
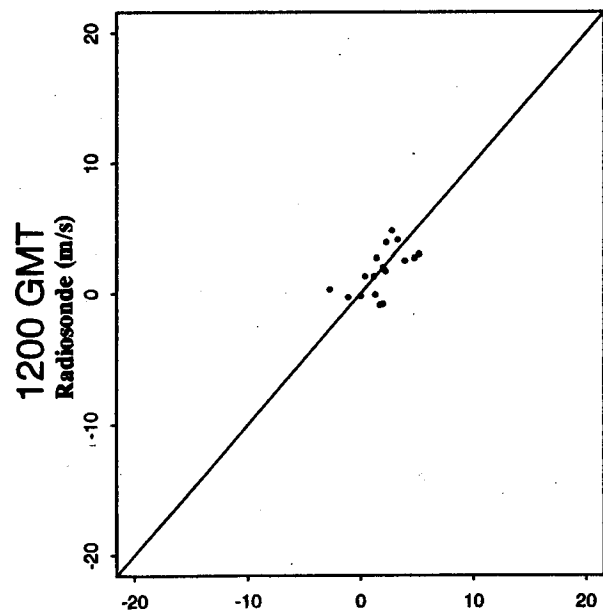
MYFR (Radiosonde) vs PTL (Radar Wind Profiler), Height=1000M



U-Component (m/s)

V-Component (m/s)

Wind Speed (m/s)

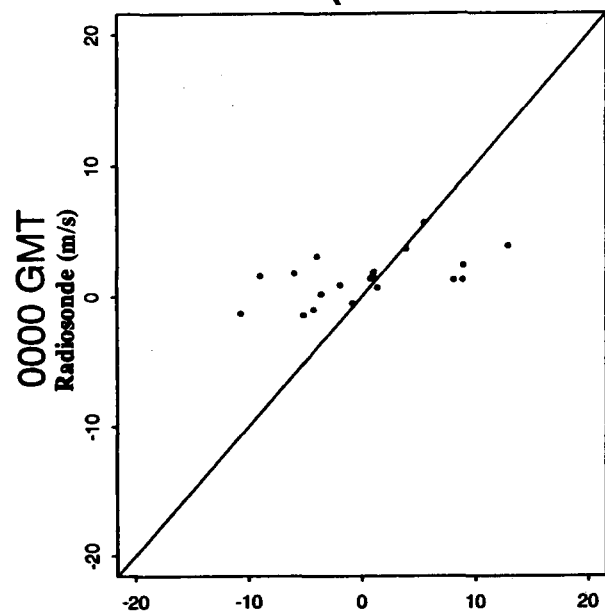


Radar Wind Profiler (m/s)

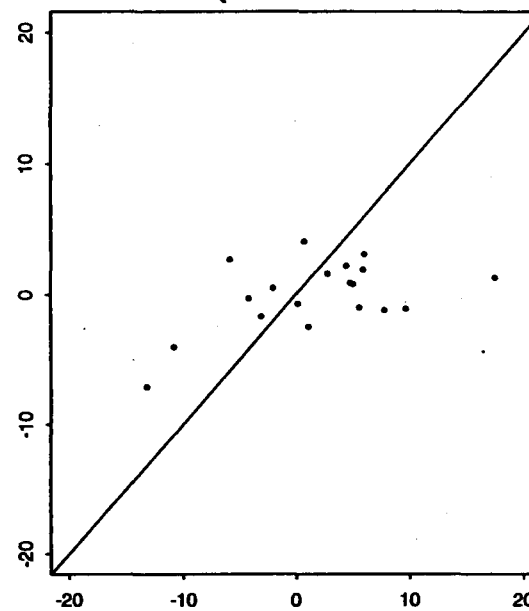
Radar Wind Profiler (m/s)

Radar Wind Profiler (m/s)

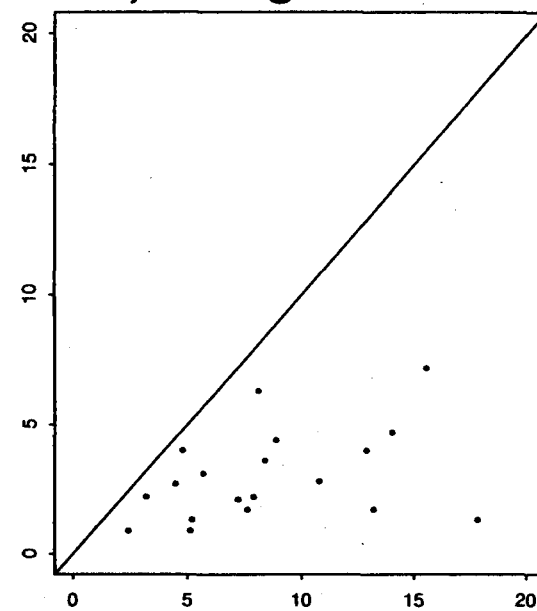
MYFR (Radiosonde) vs PTL (Radar Wind Profiler), Height=2000M



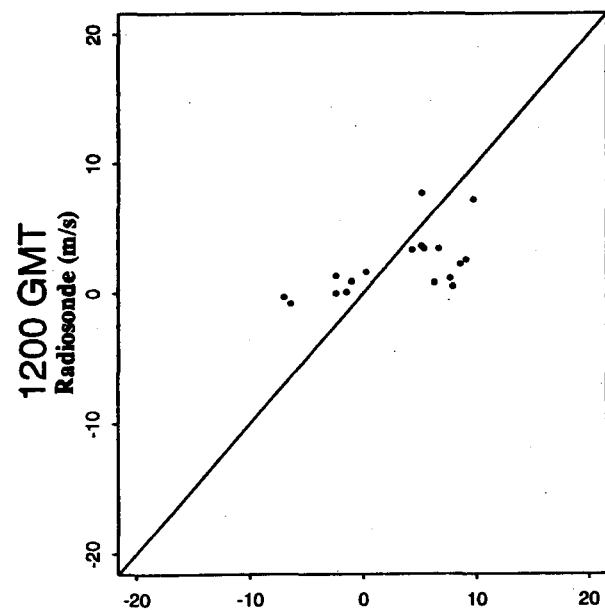
U-Component (m/s)



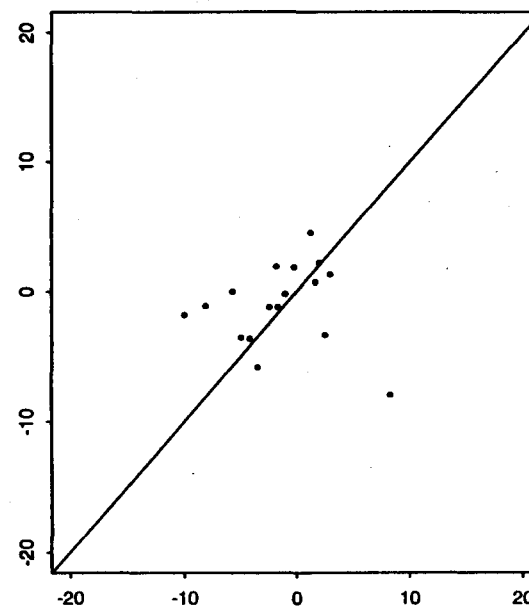
V-Component (m/s)



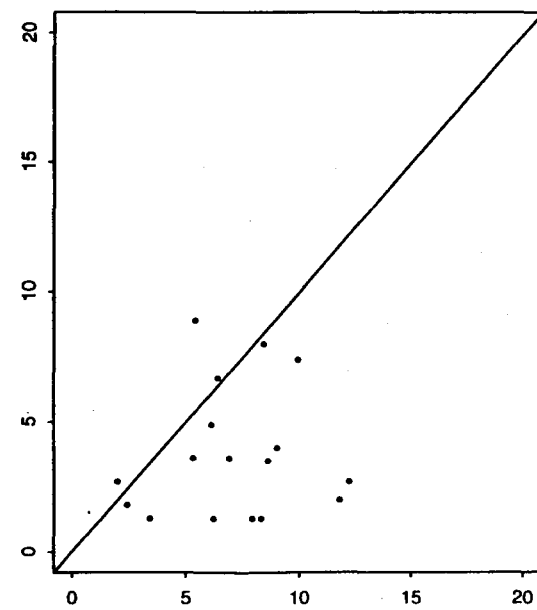
Wind Speed (m/s)



Radar Wind Profiler (m/s)



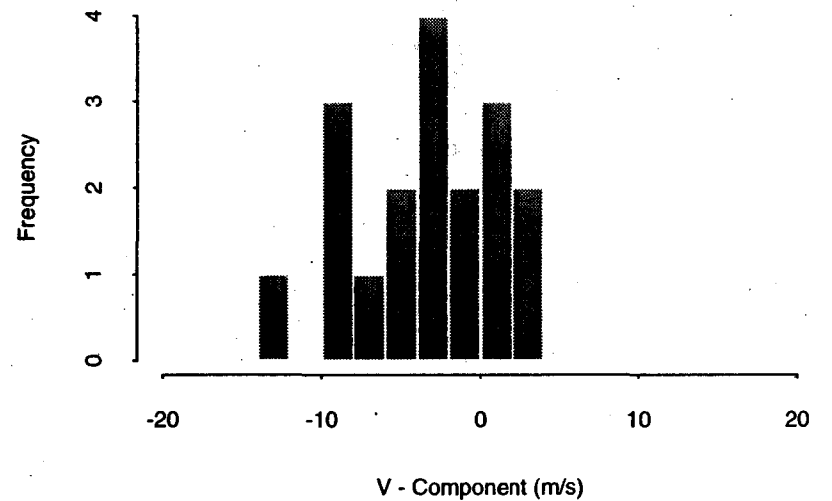
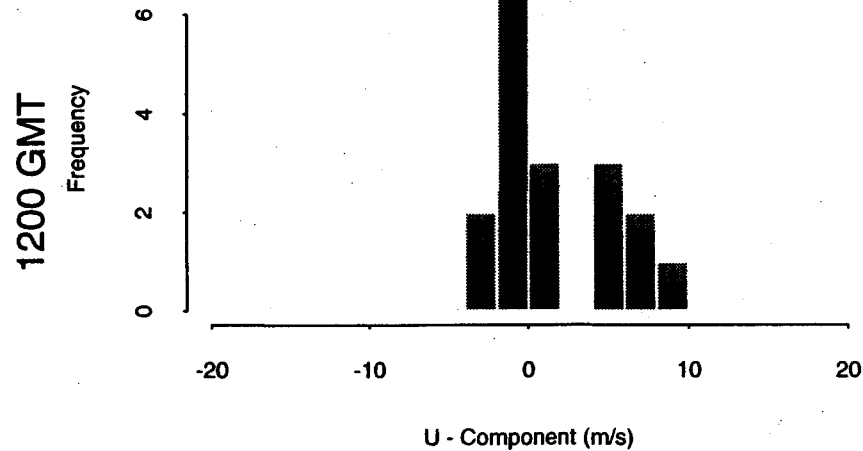
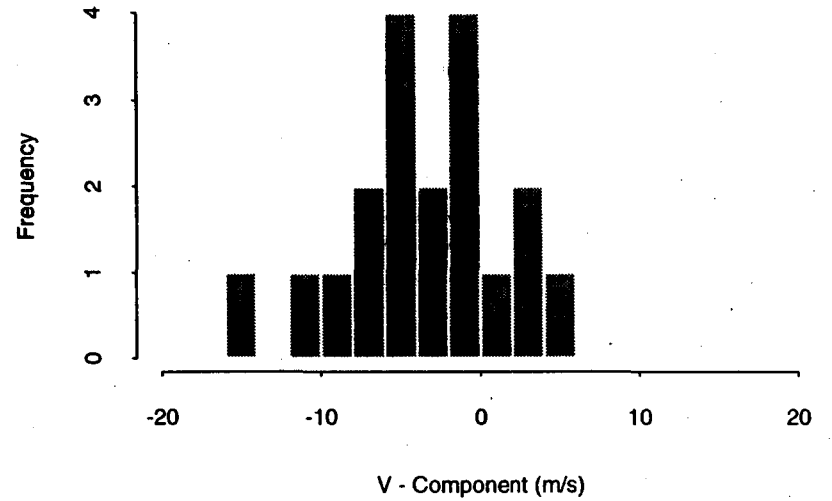
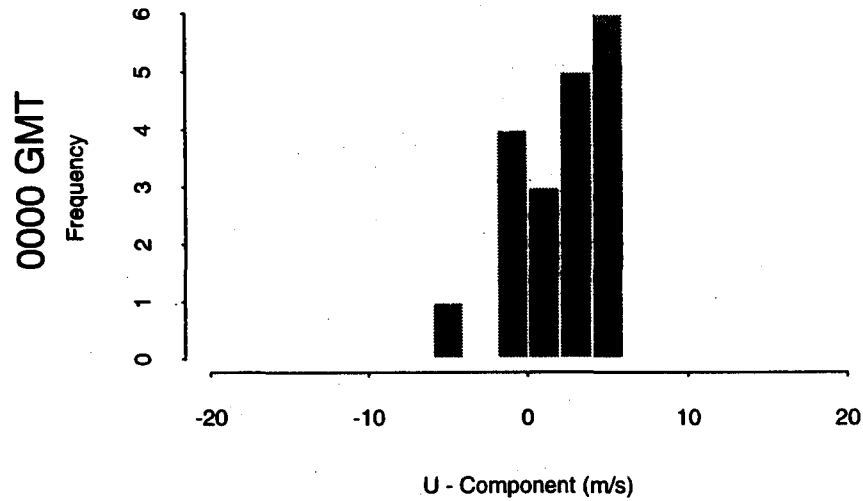
Radar Wind Profiler (m/s)



Radar Wind Profiler (m/s)

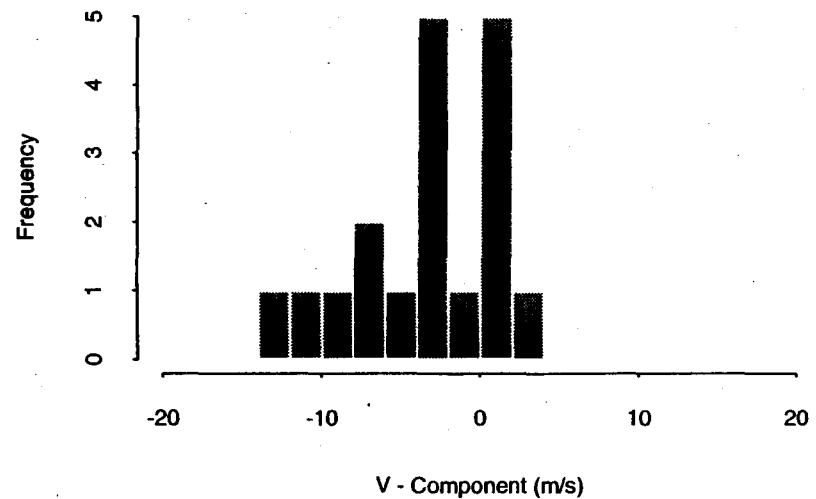
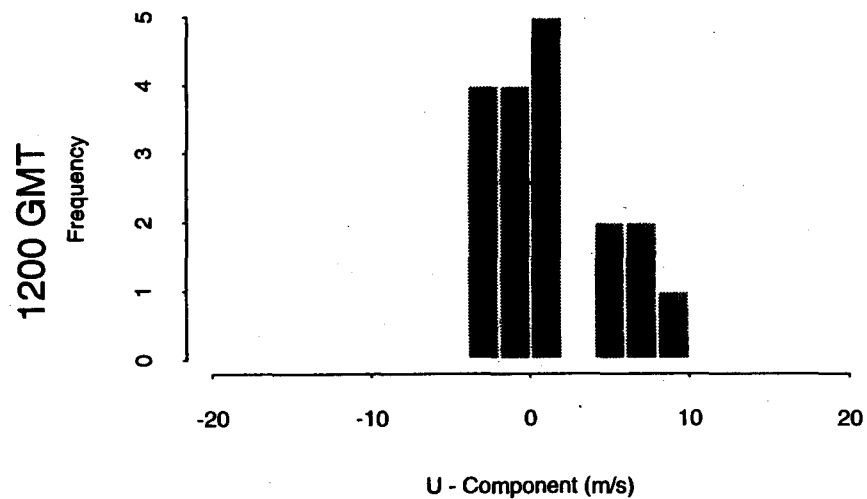
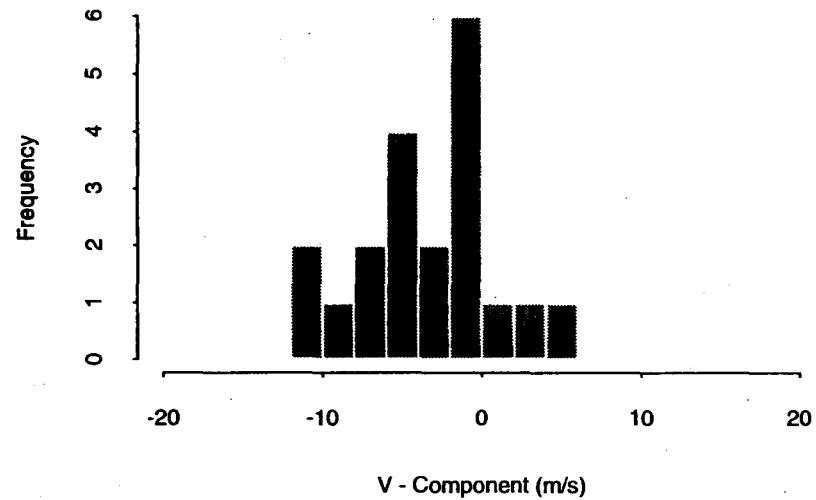
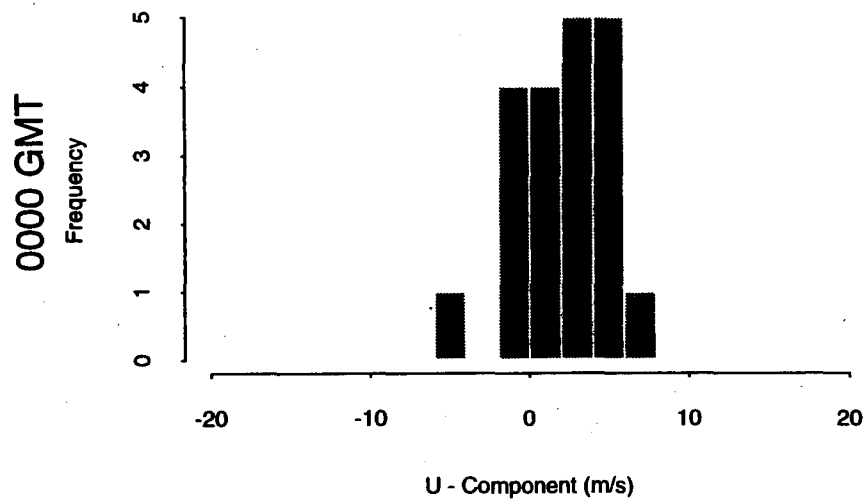
Frequency Distribution of Differences

PTL (Radar Wind Profiler) - MYFR (Radiosonde), 100M



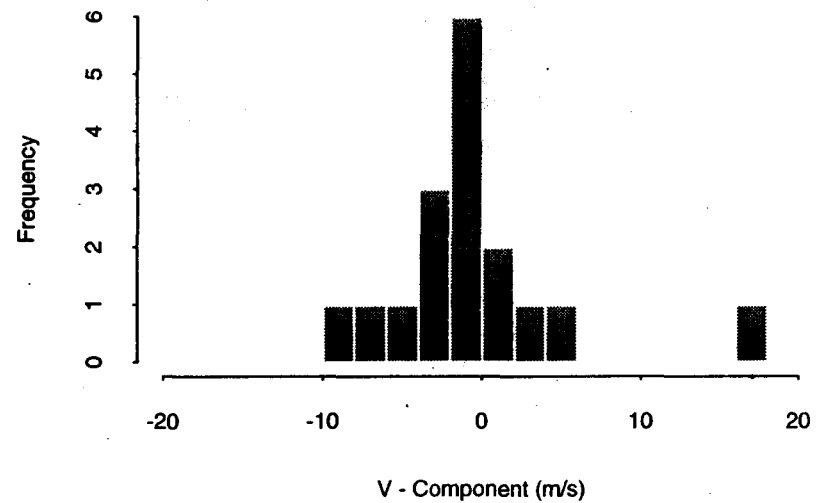
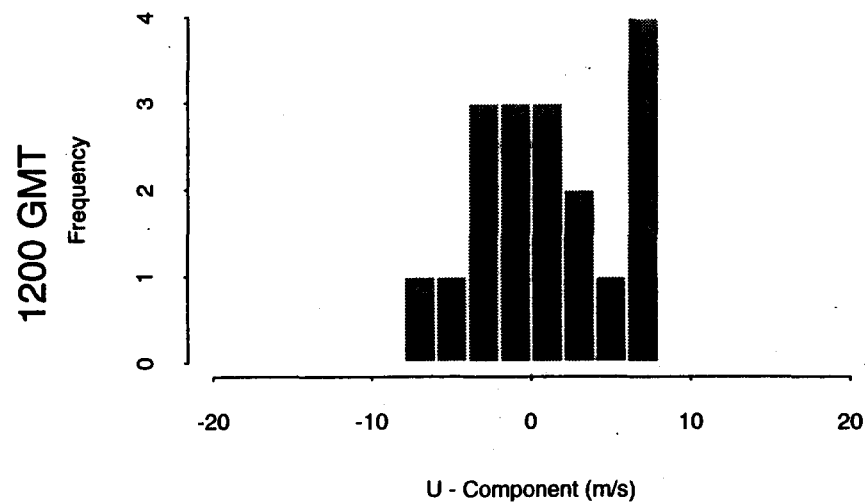
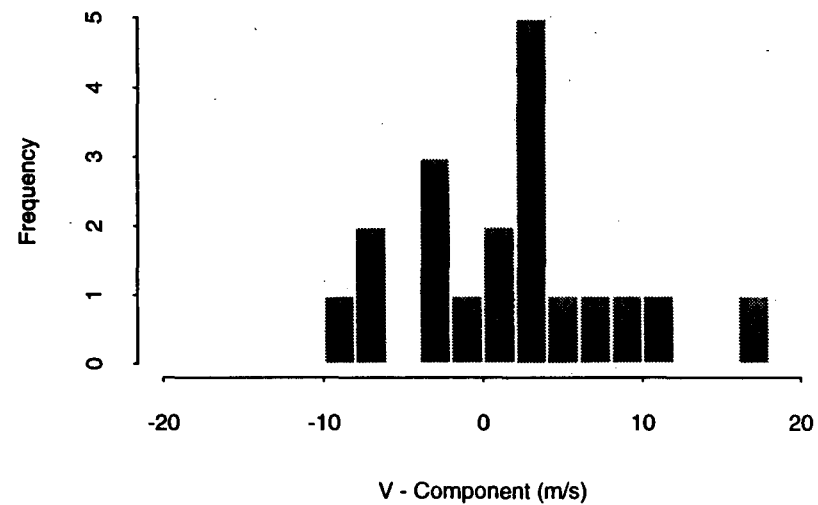
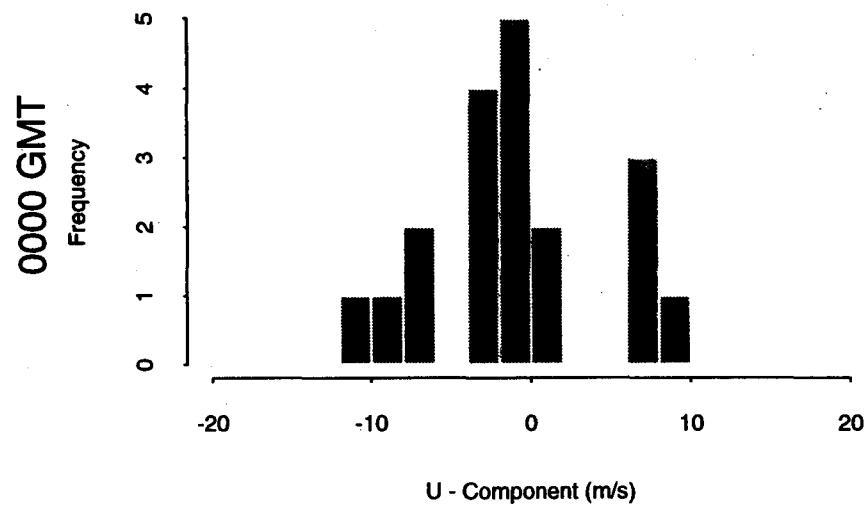
Frequency Distribution of Differences

PTL (Radar Wind Profiler) - MYFR (Radiosonde), 300M



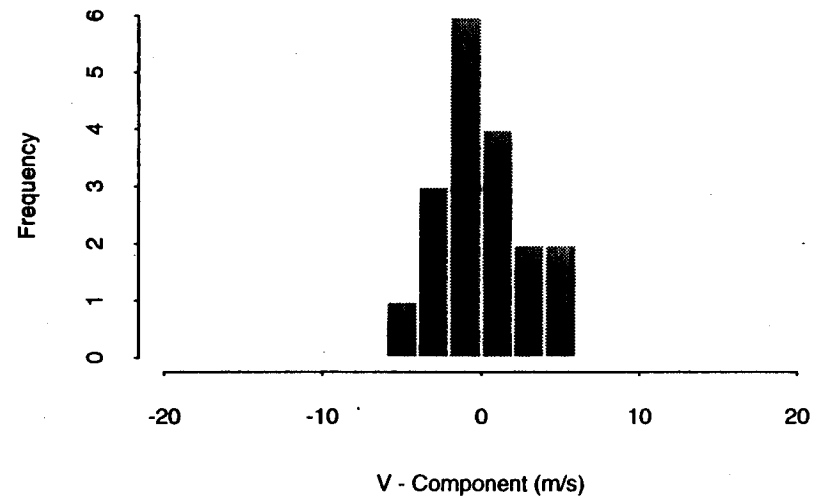
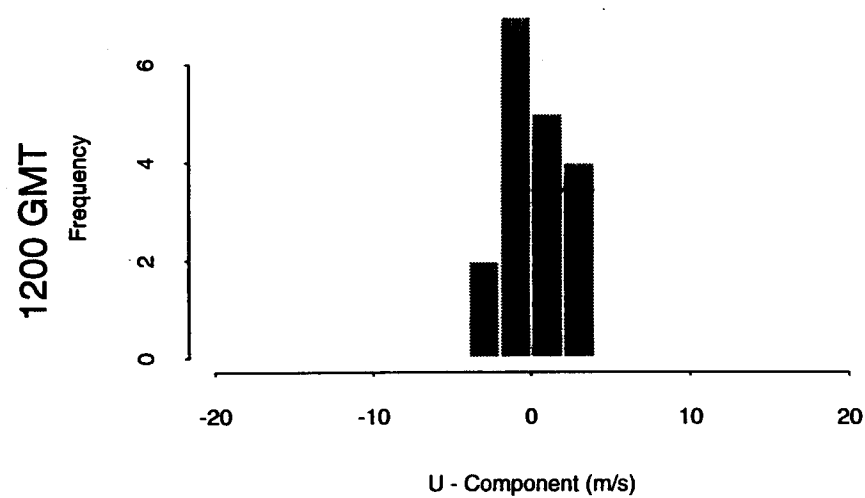
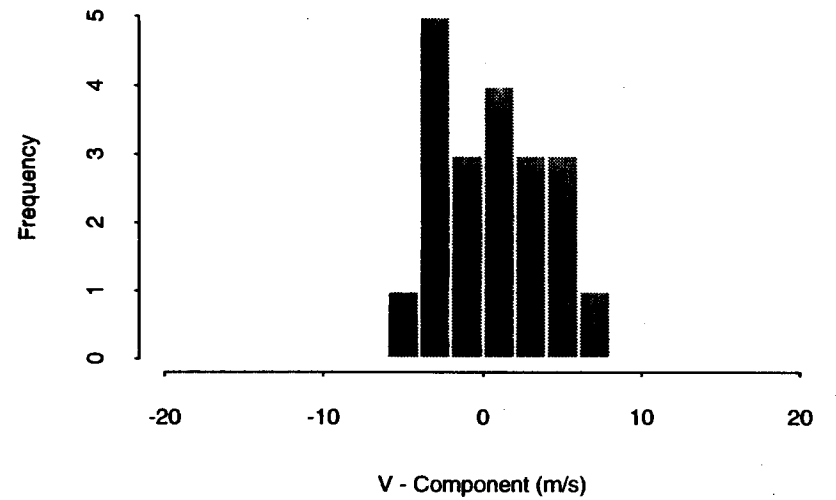
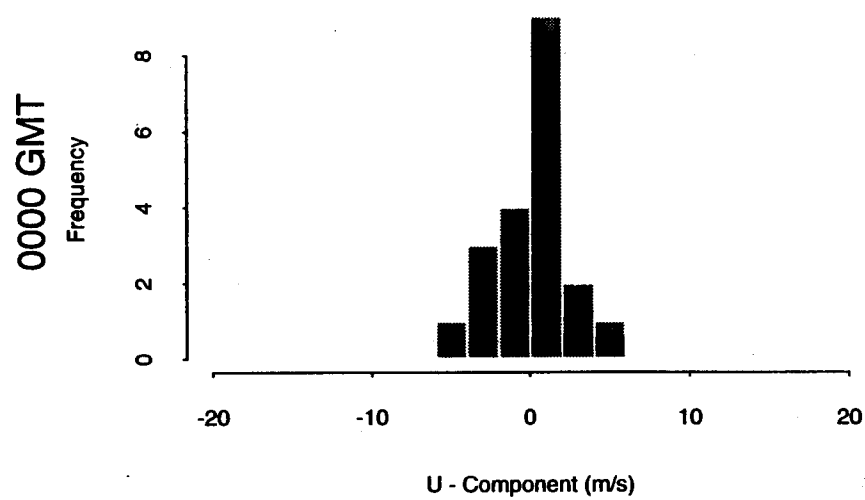
Frequency Distribution of Differences

PTL (Radar Wind Profiler) - MYFR (Radiosonde), 2000M



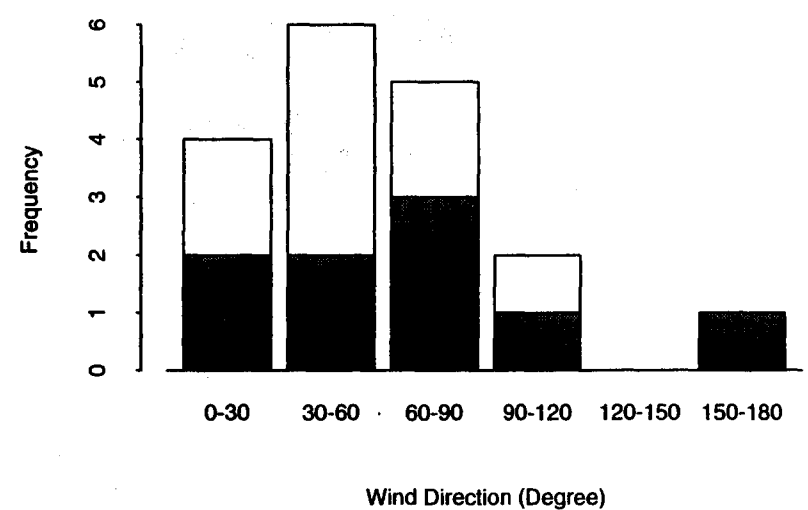
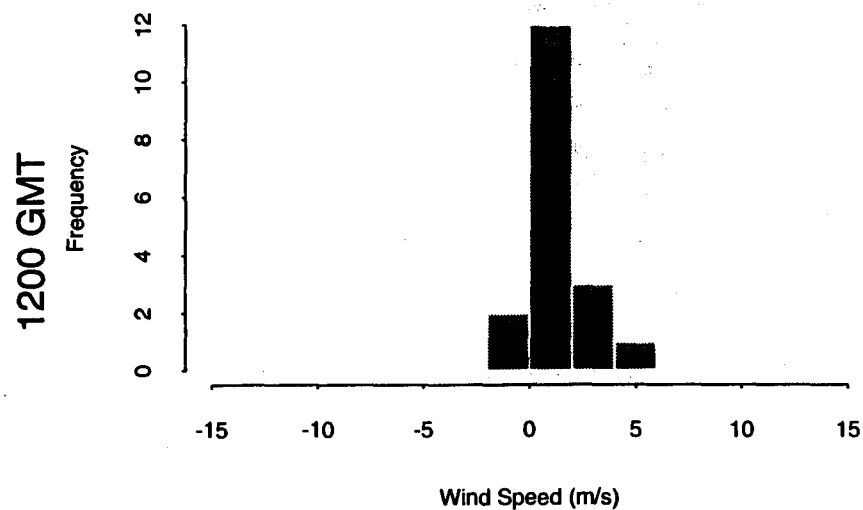
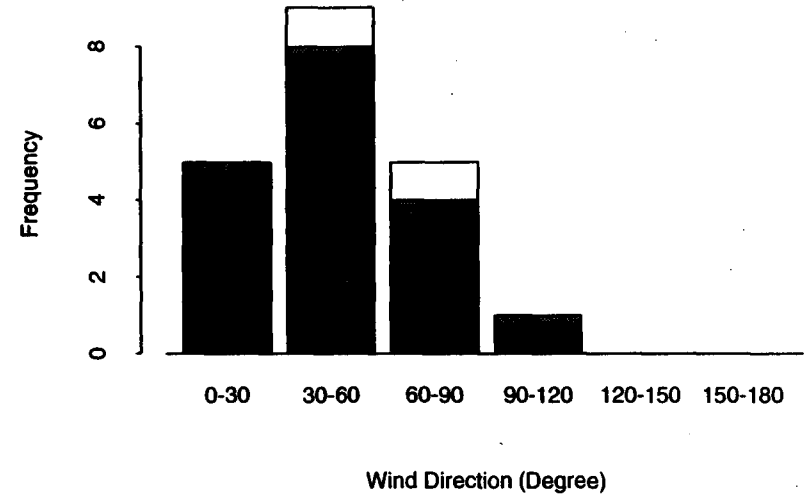
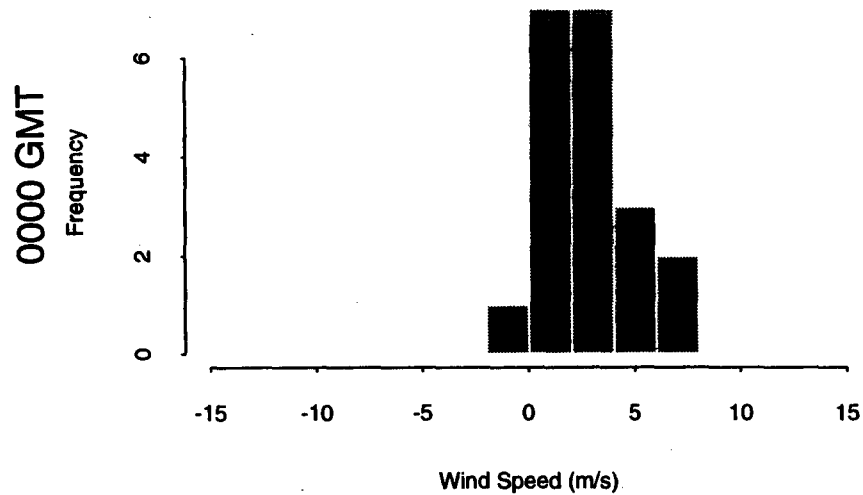
Frequency Distribution of Differences

PTL (Radar Wind Profiler) - MYFR (Radiosonde), 1000M



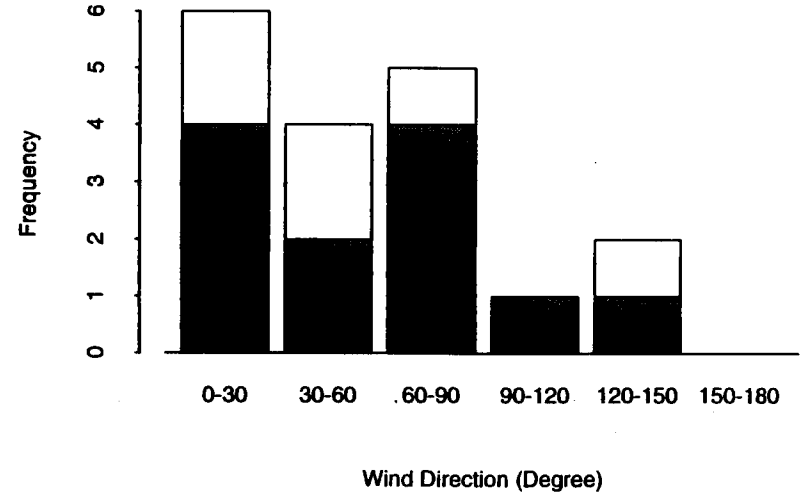
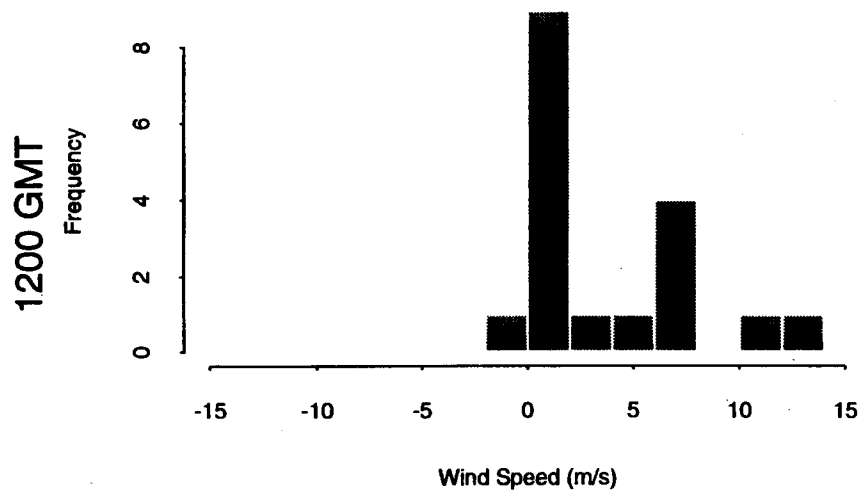
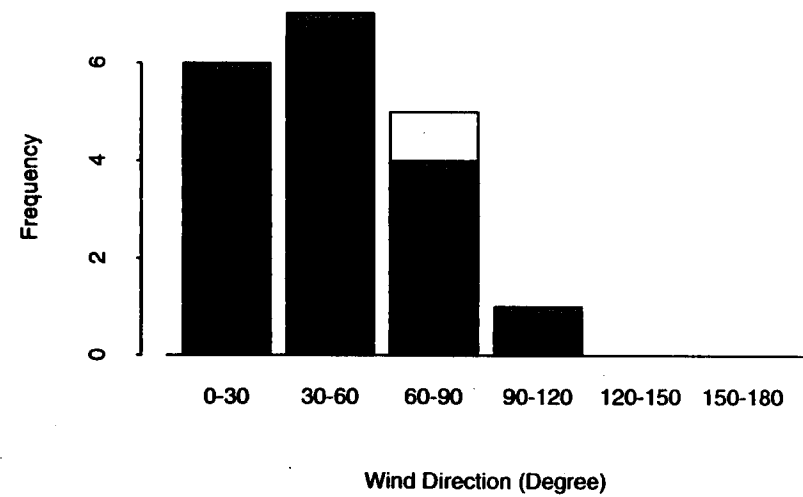
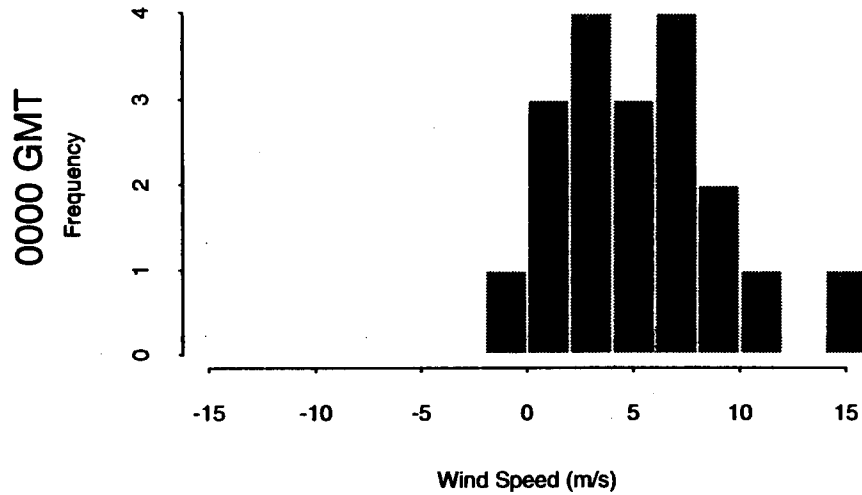
Frequency Distribution of Differences

PTL (Radar Wind Profiler) - MYFR (Radiosonde), 300M



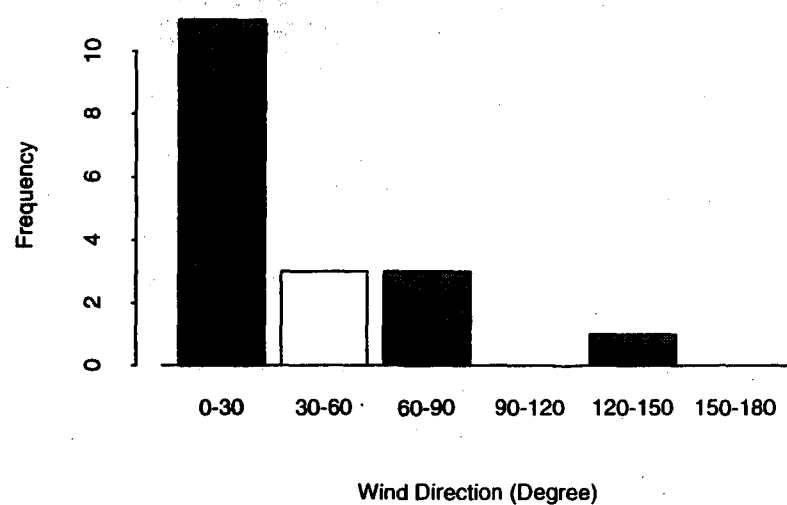
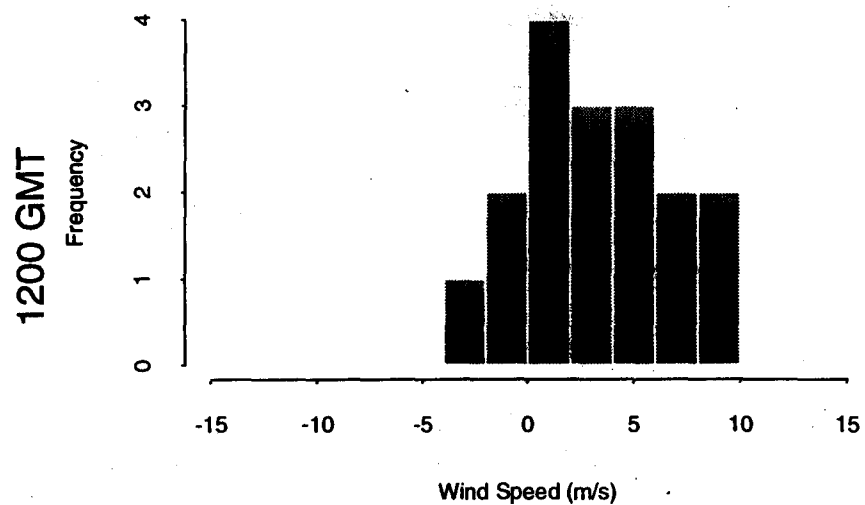
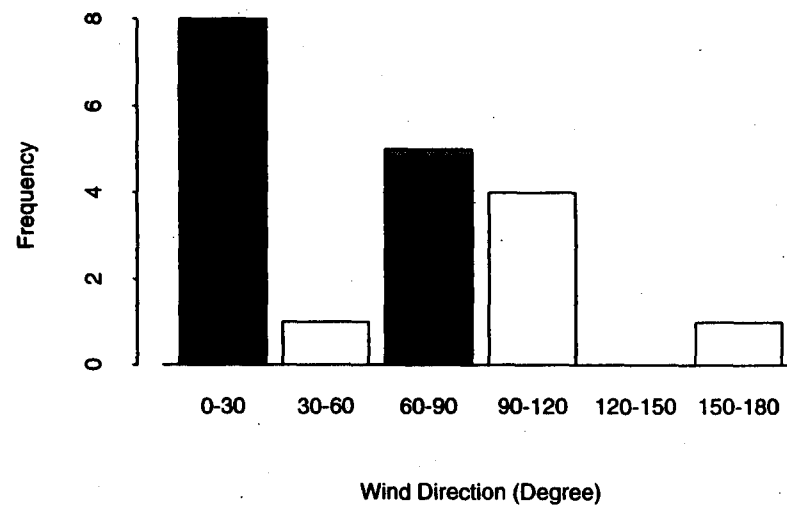
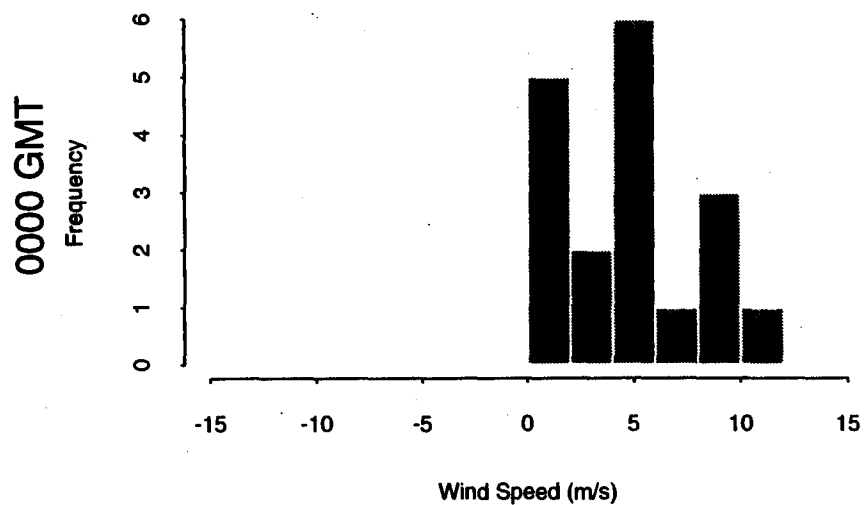
Frequency Distribution of Differences

PTL (Radar Wind Profiler) - MYFR (Radiosonde), 100M



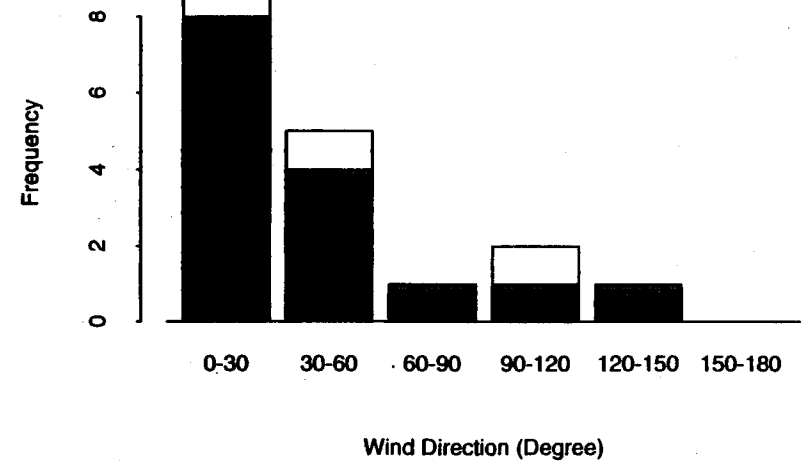
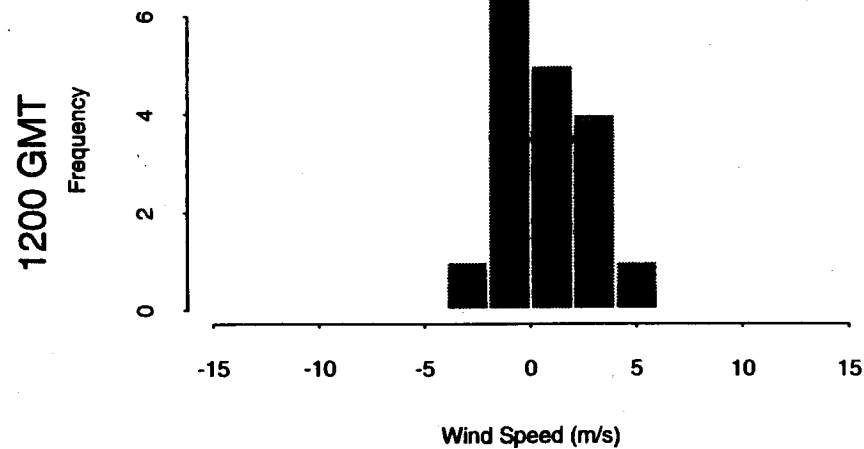
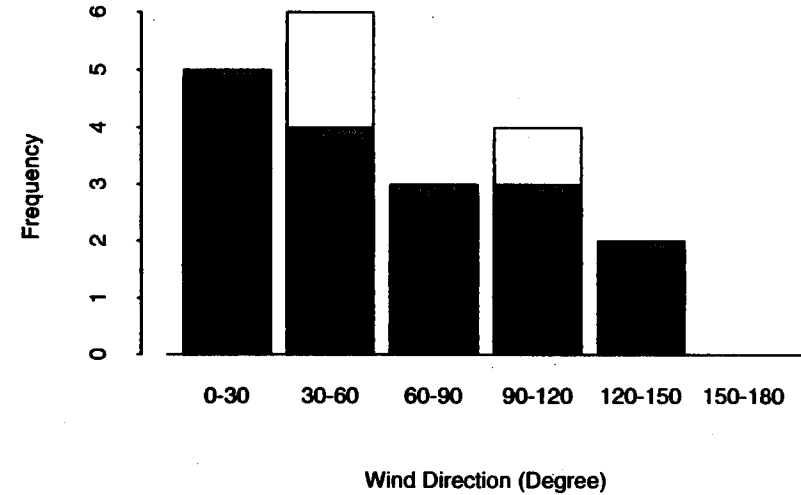
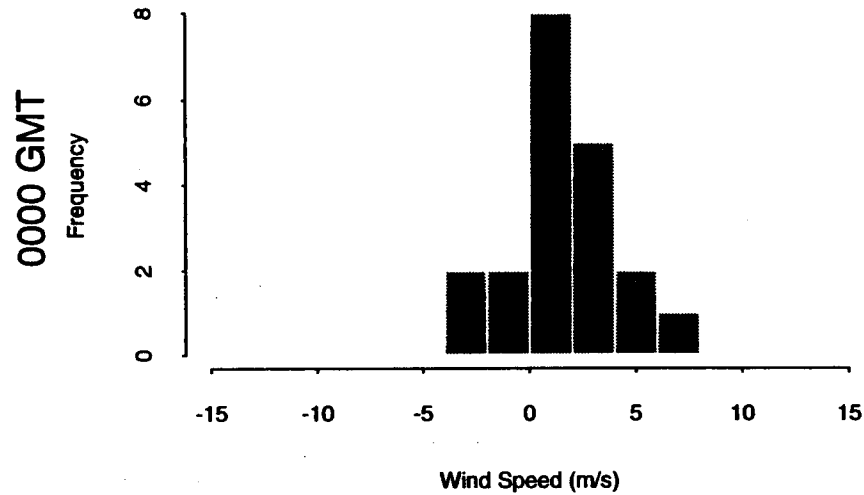
Frequency Distribution of Differences

PTL (Radar Wind Profiler) - MYFR (Radiosonde), 2000M

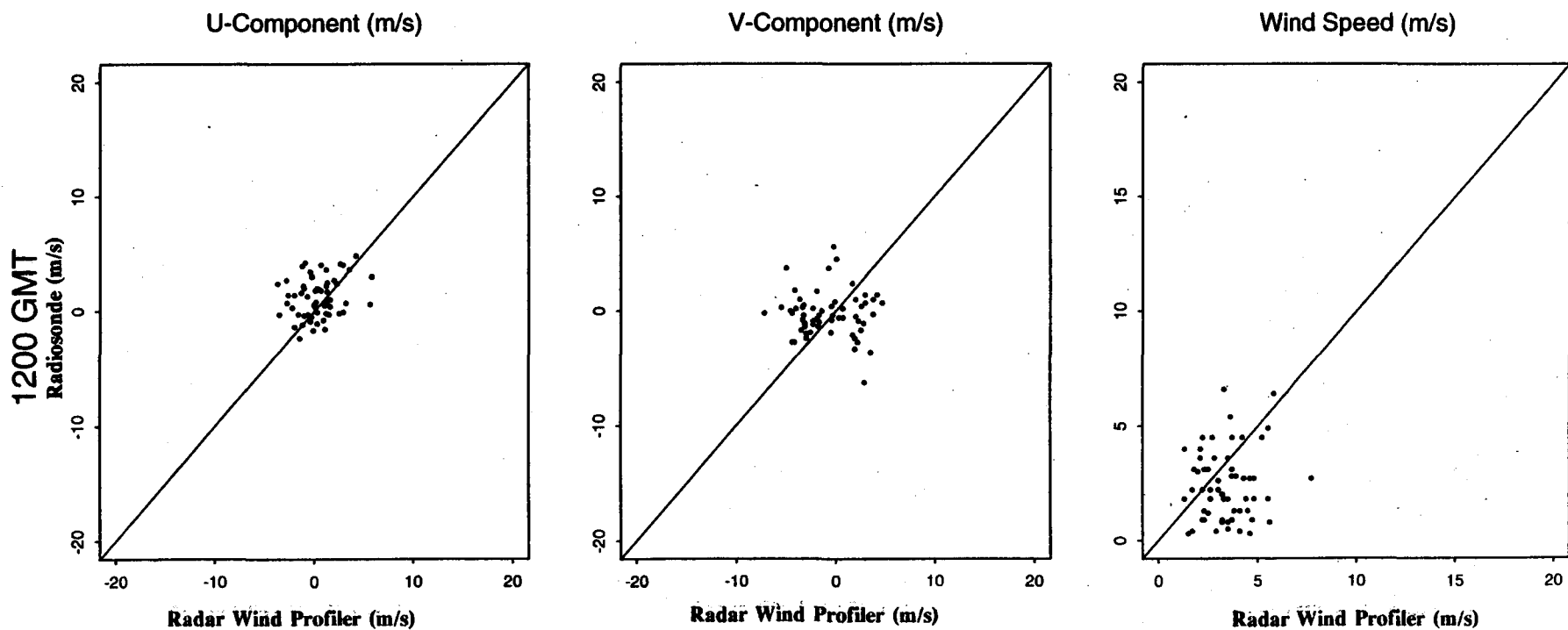
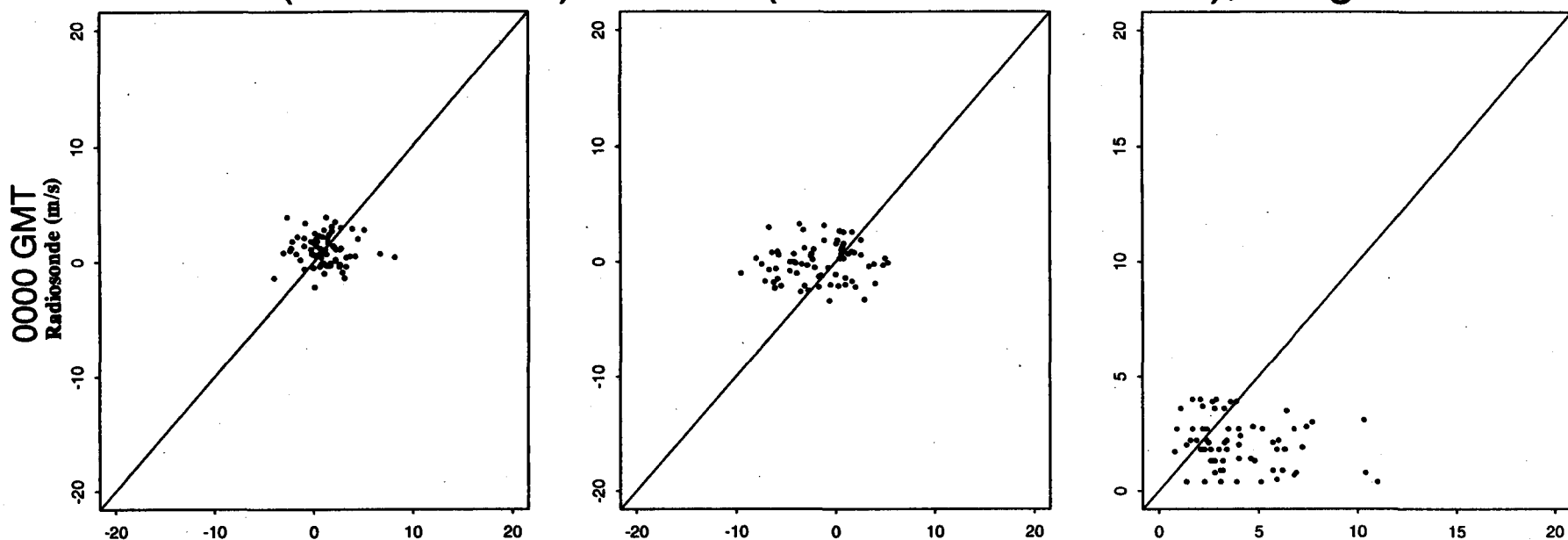


Frequency Distribution of Differences

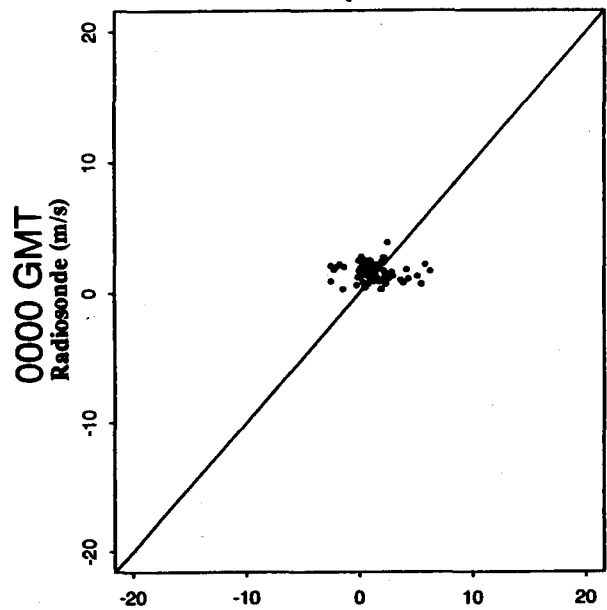
PTL (Radar Wind Profiler) - MYFR (Radiosonde), 1000M



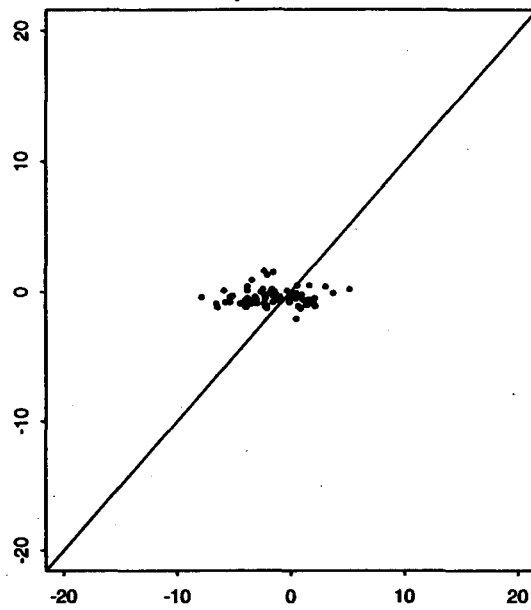
MYFR (Radiosonde) vs ELC (Radar Wind Profiler), Height=1000M



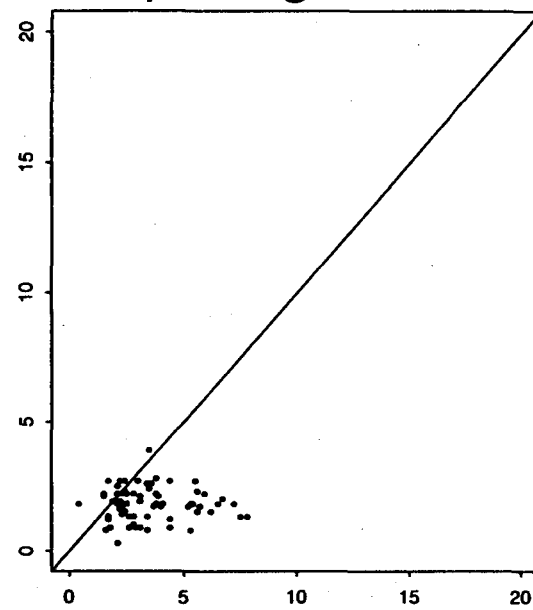
MYFR (Radiosonde) vs ELC (Radar Wind Profiler), Height=300M



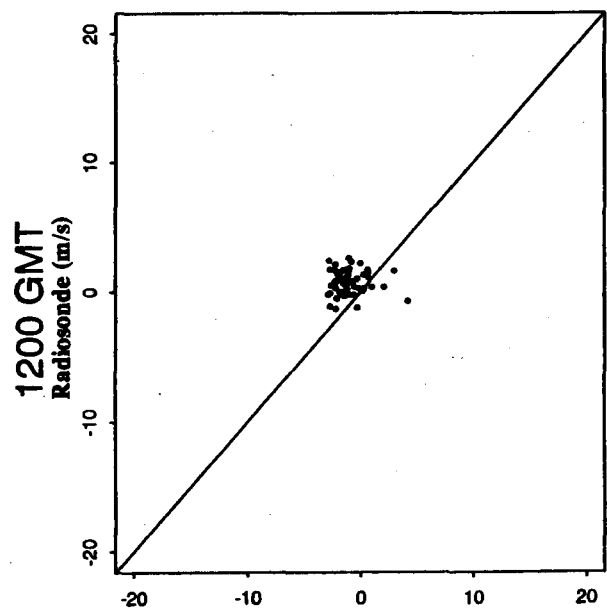
U-Component (m/s)



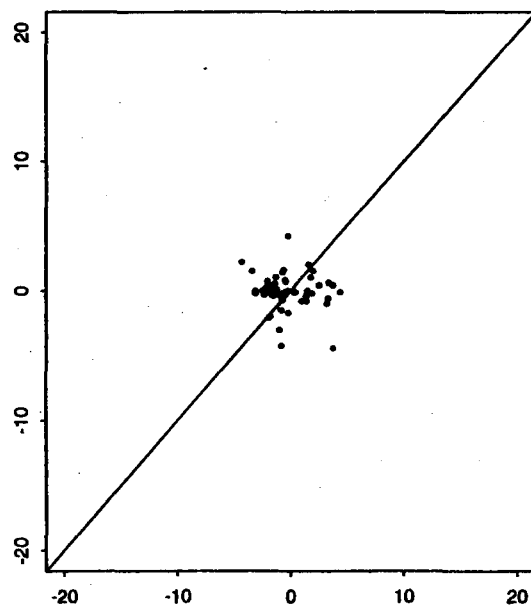
V-Component (m/s)



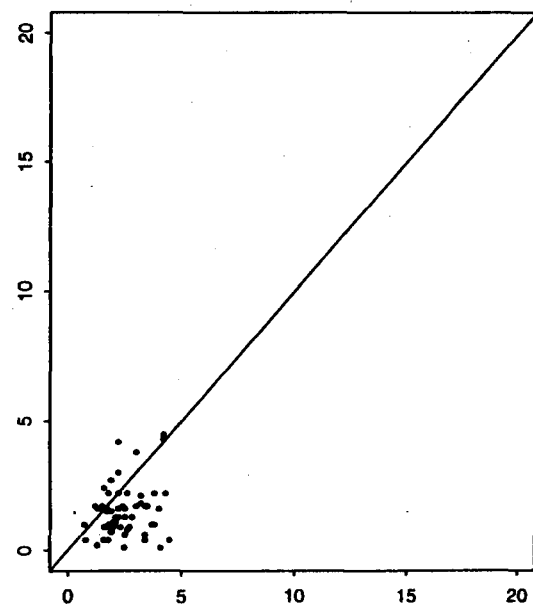
Wind Speed (m/s)



Radar Wind Profiler (m/s)



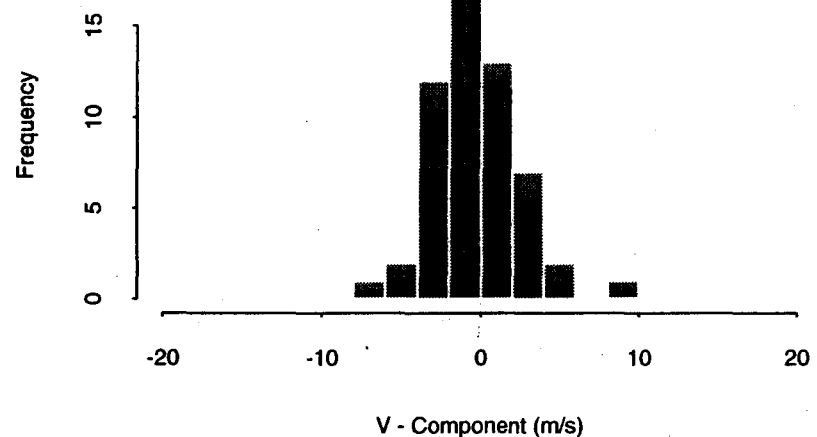
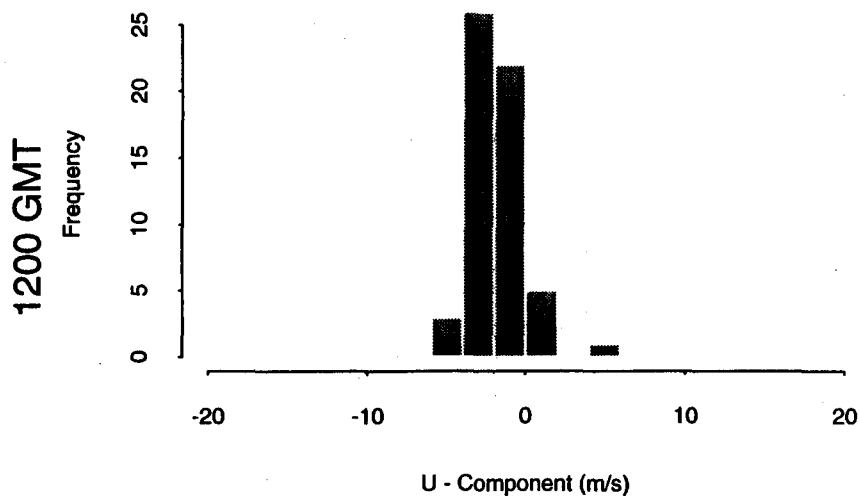
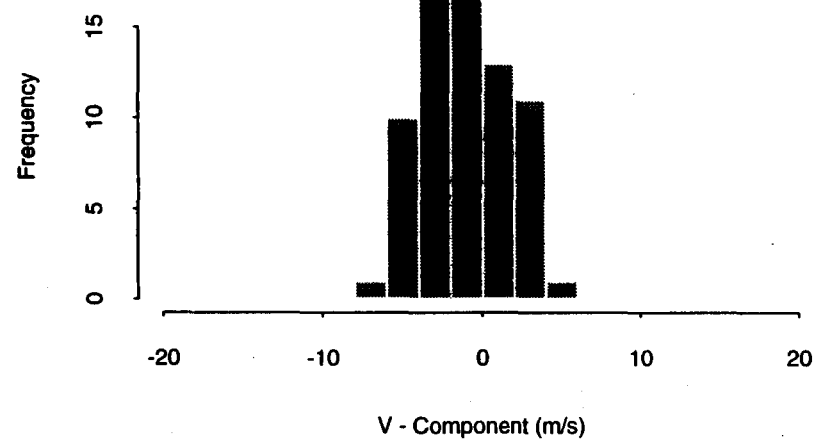
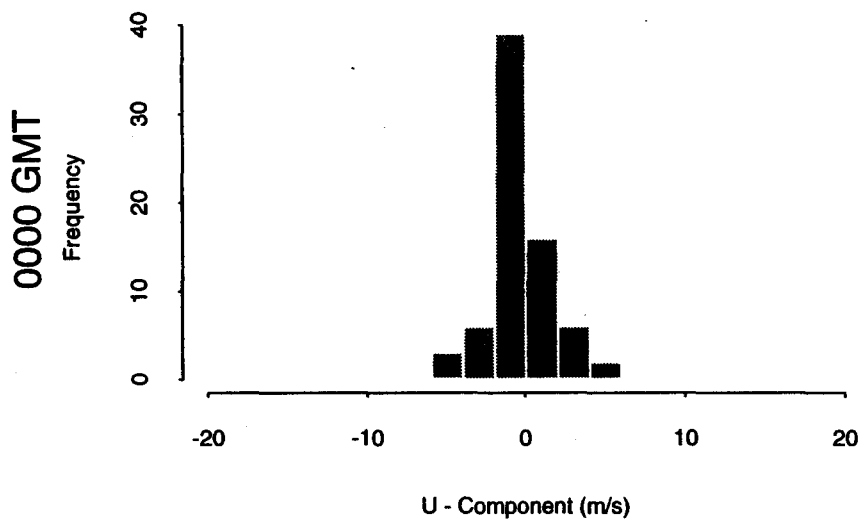
Radar Wind Profiler (m/s)



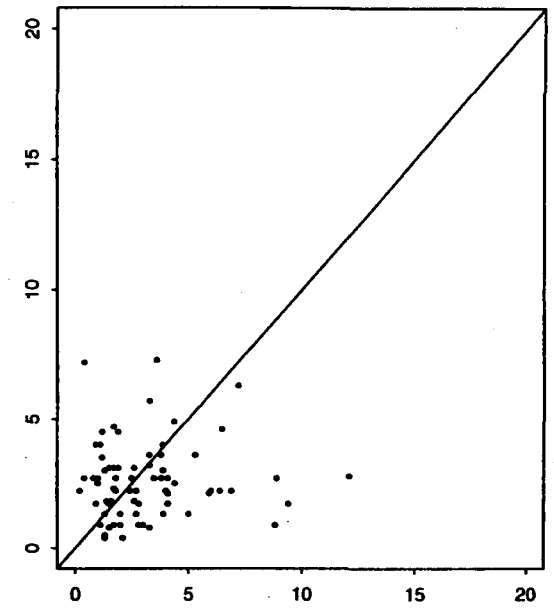
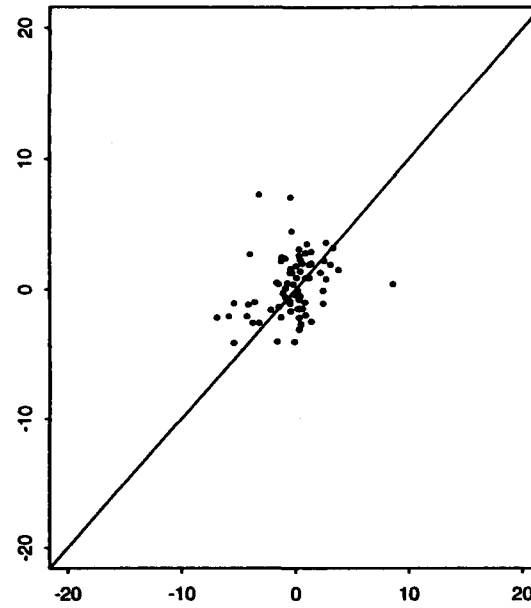
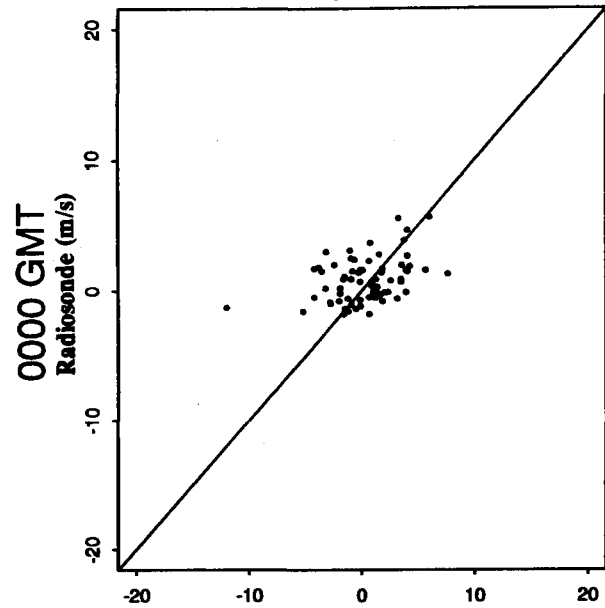
Radar Wind Profiler (m/s)

Frequency Distribution of Differences

ELC (Radar Wind Profiler) - MYFR (Radiosonde), 300M



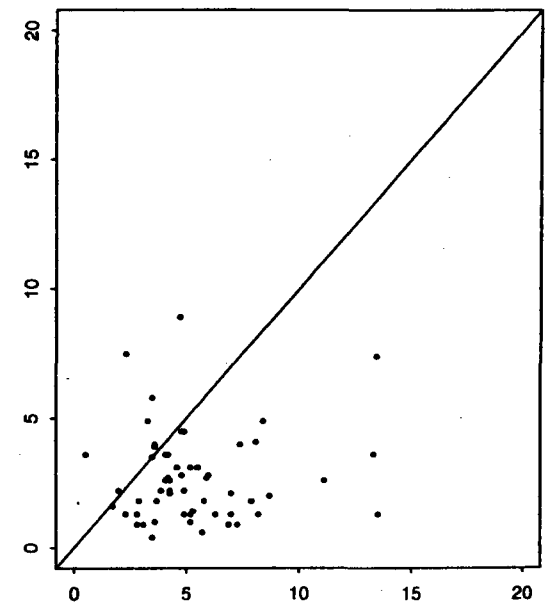
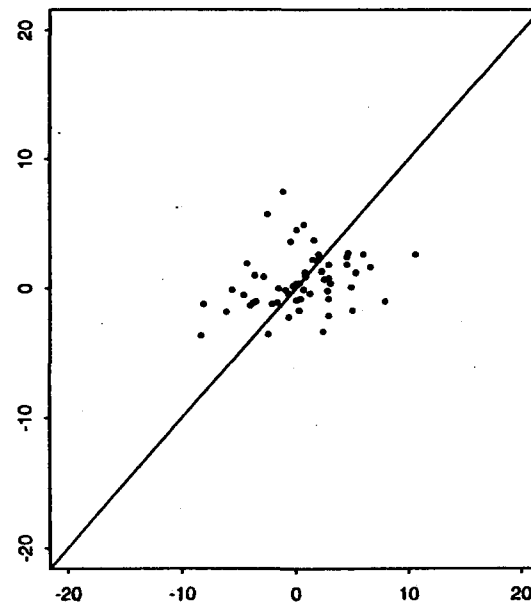
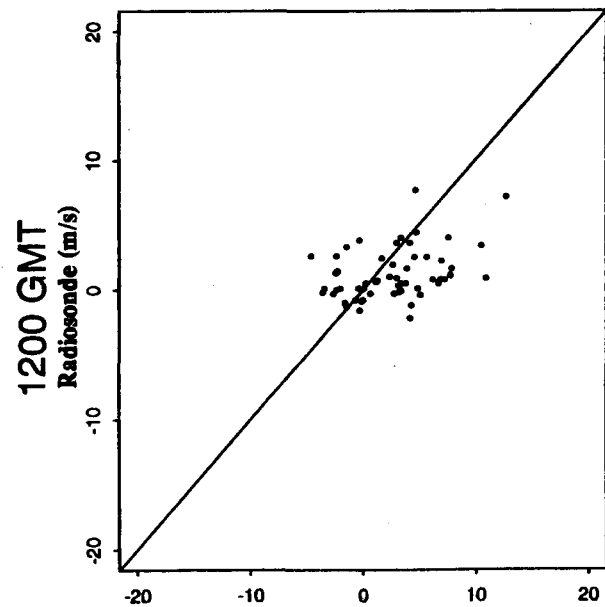
MYFR (Radiosonde) vs ELC (Radar Wind Profiler), Height=2000M



U-Component (m/s)

V-Component (m/s)

Wind Speed (m/s)



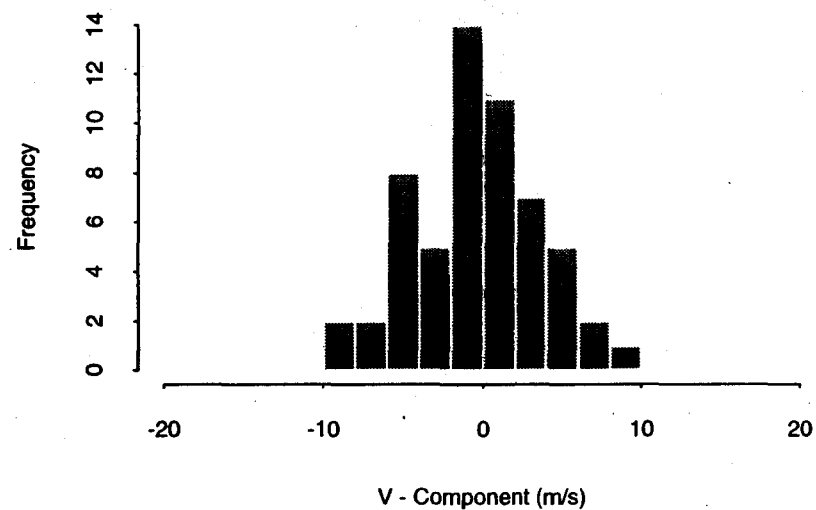
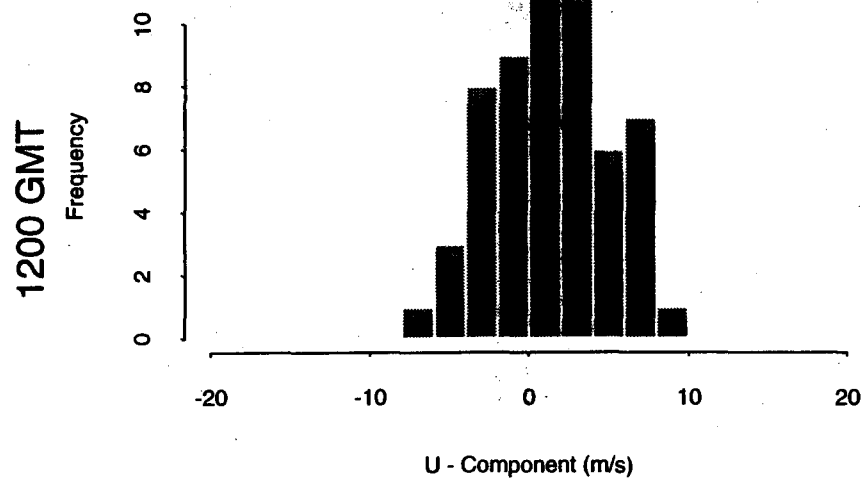
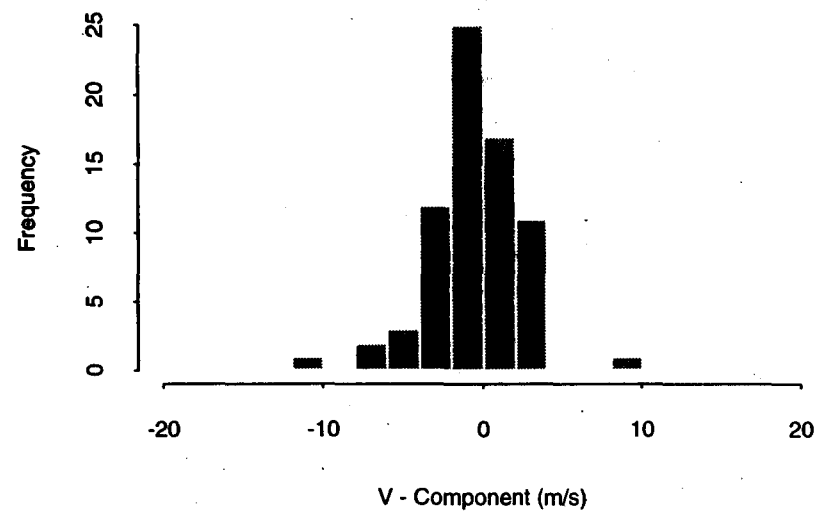
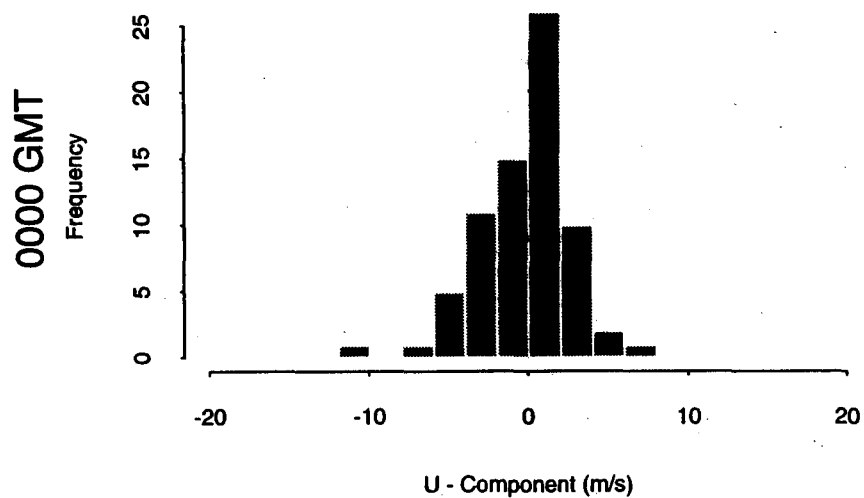
Radar Wind Profiler (m/s)

Radar Wind Profiler (m/s)

Radar Wind Profiler (m/s)

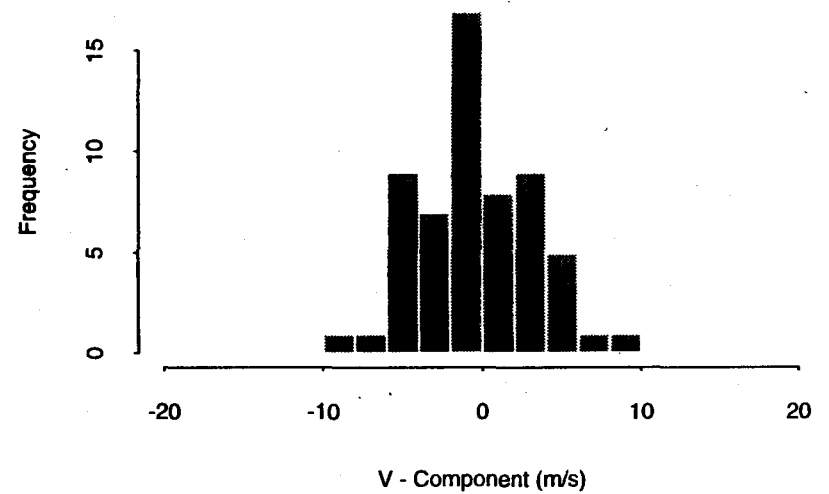
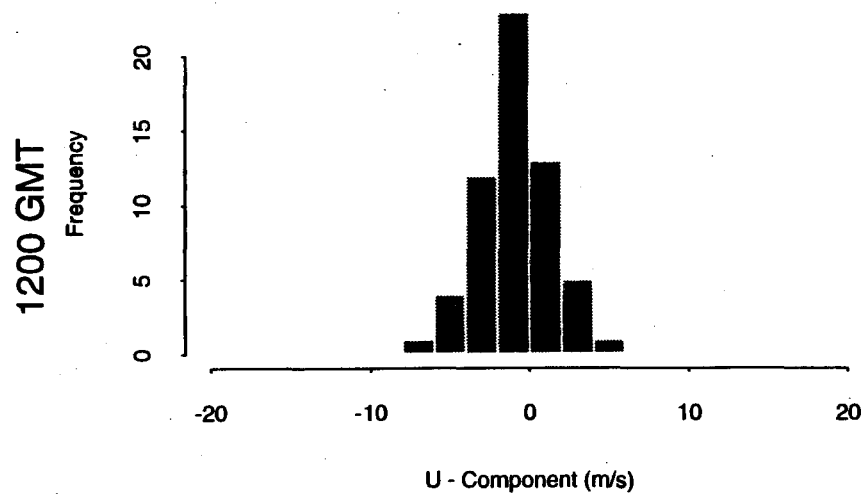
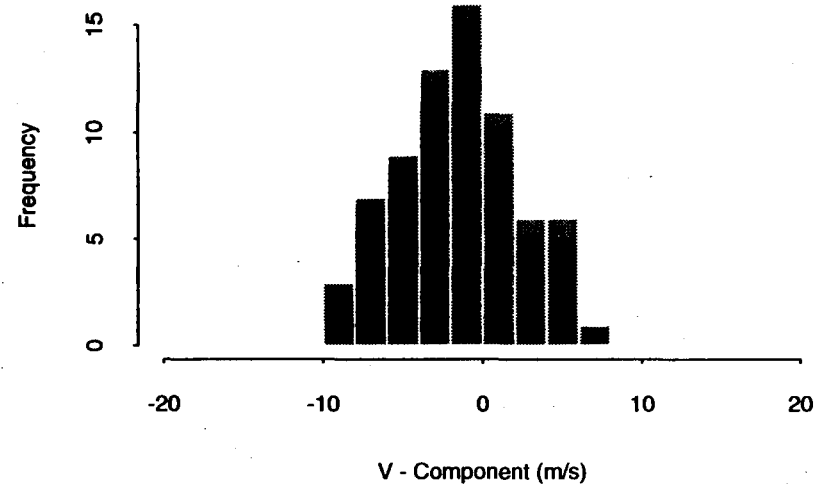
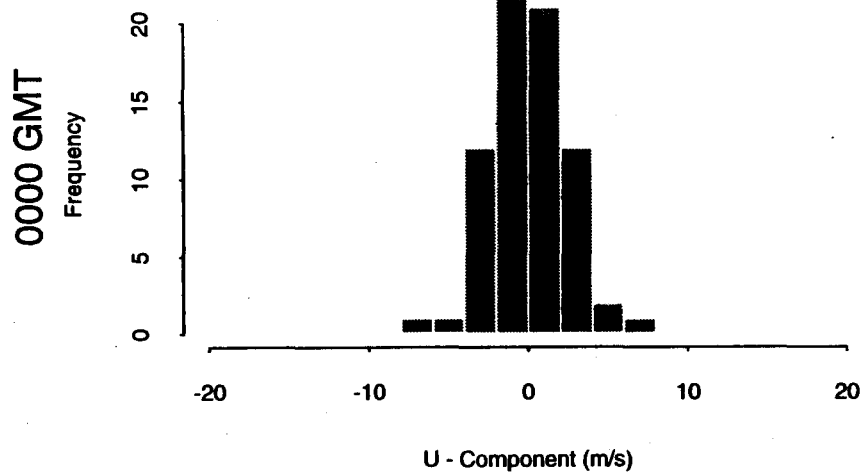
Frequency Distribution of Differences

ELC (Radar Wind Profiler) - MYFR (Radiosonde), 2000M



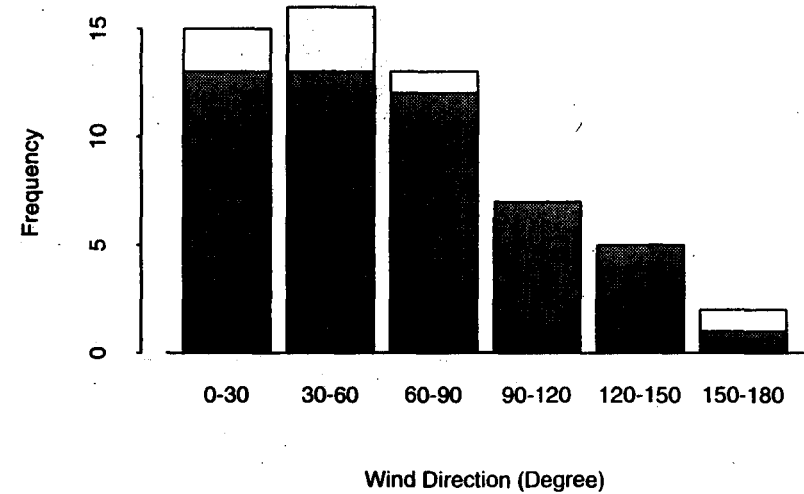
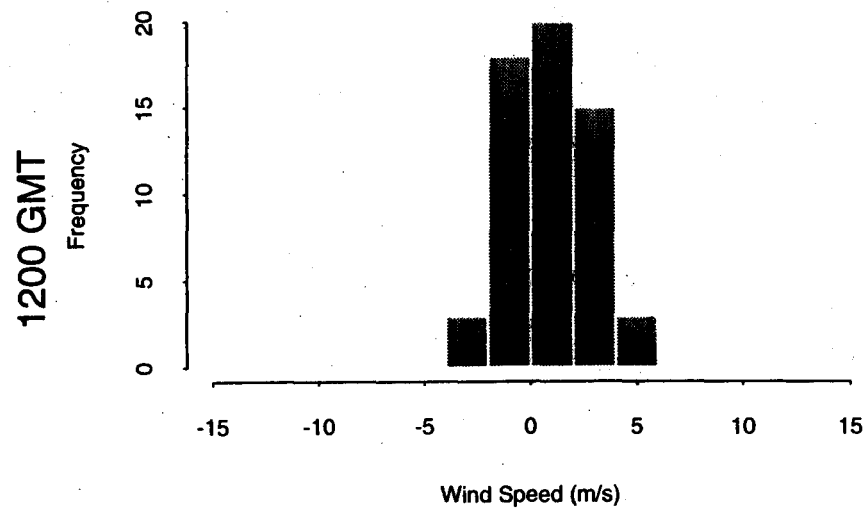
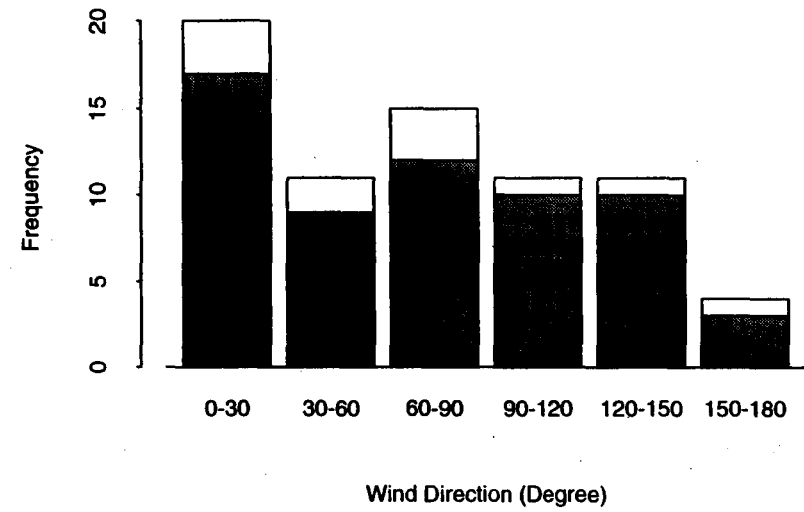
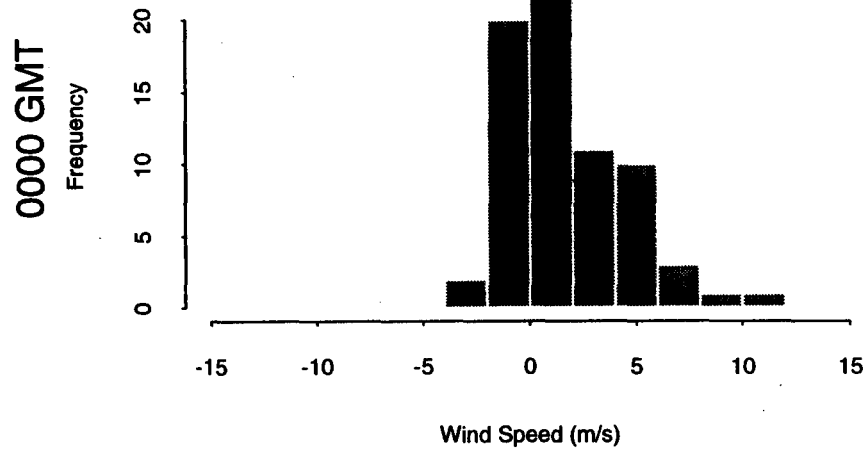
Frequency Distribution of Differences

ELC (Radar Wind Profiler) - MYFR (Radiosonde), 1000M



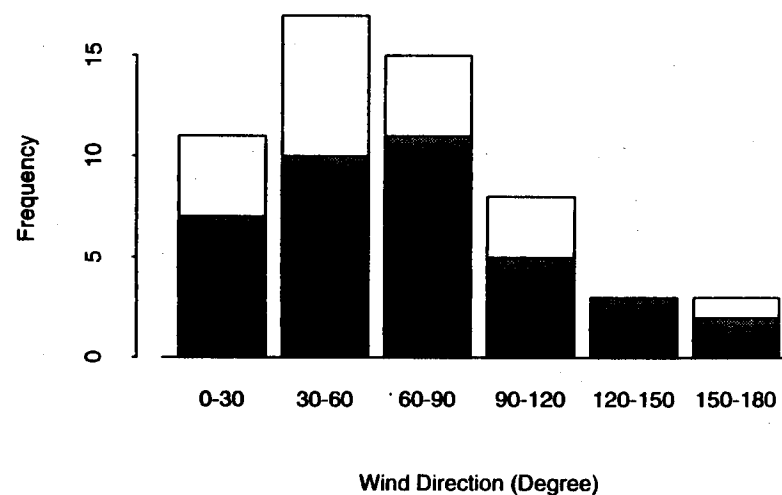
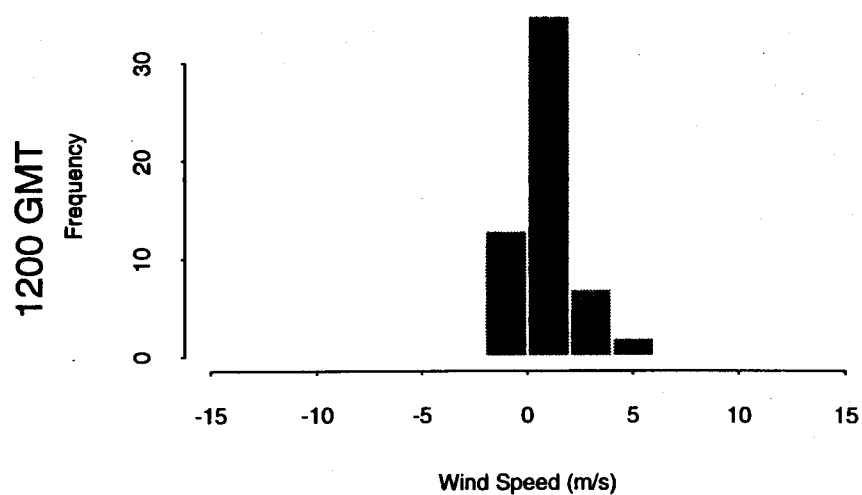
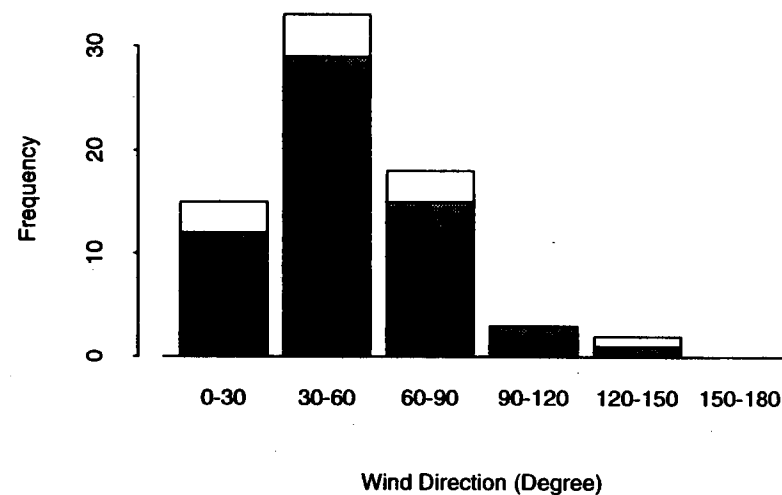
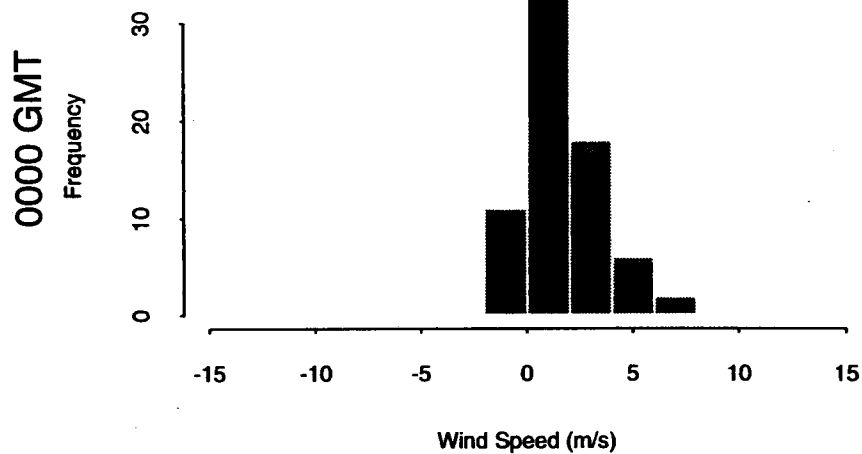
Frequency Distribution of Differences

ELC (Radar Wind Profiler) - MYFR (Radiosonde), 1000M



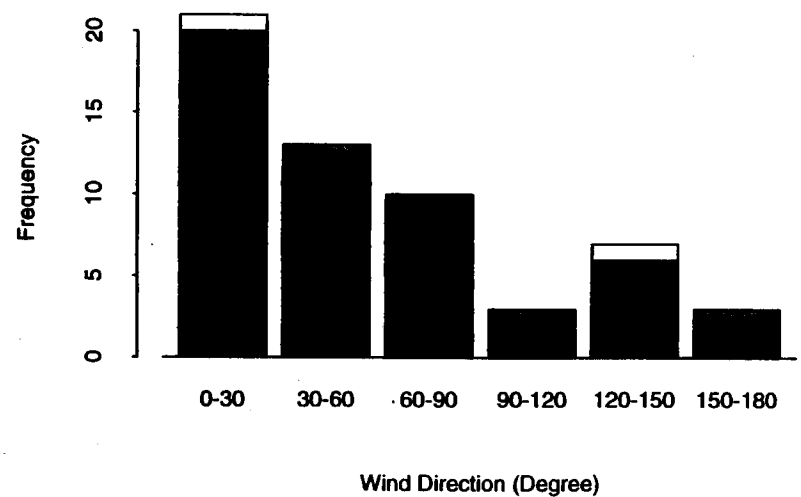
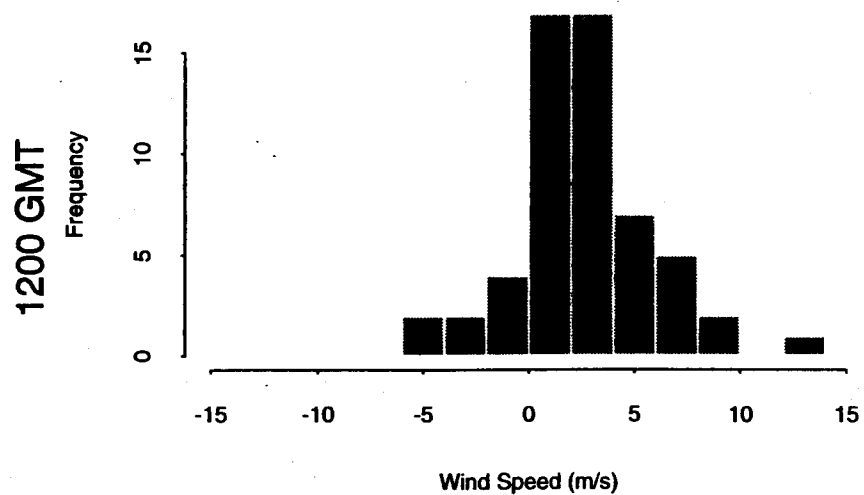
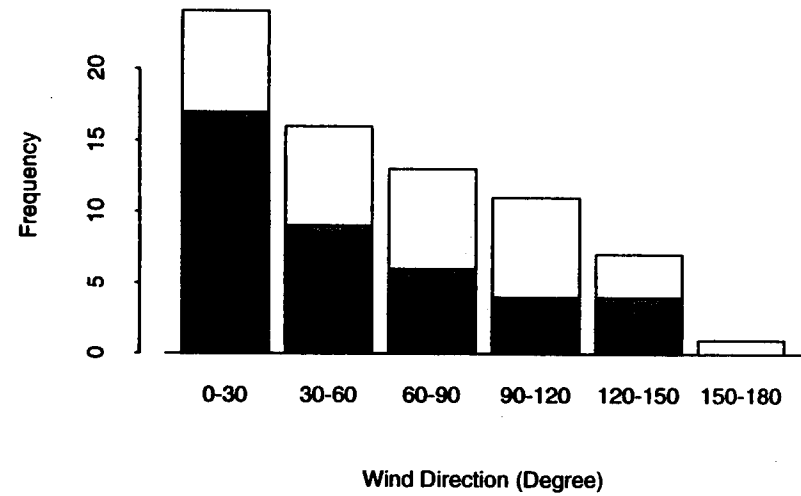
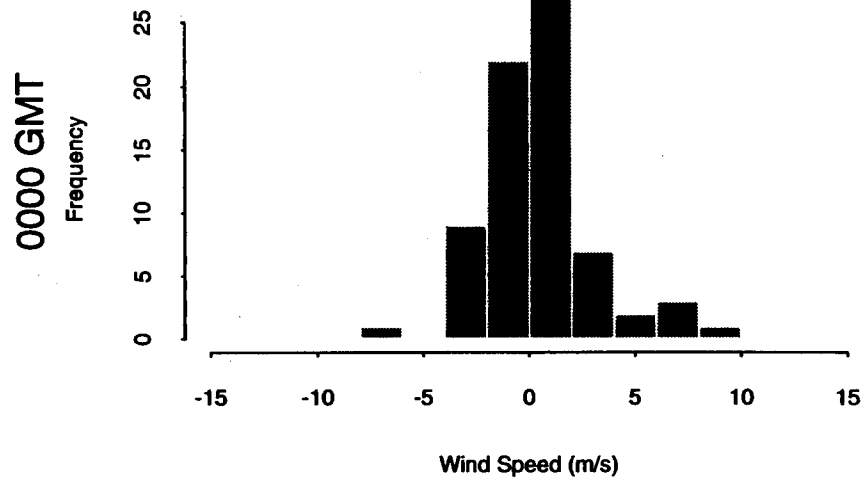
Frequency Distribution of Differences

ELC (Radar Wind Profiler) - MYFR (Radiosonde), 300M



Frequency Distribution of Differences

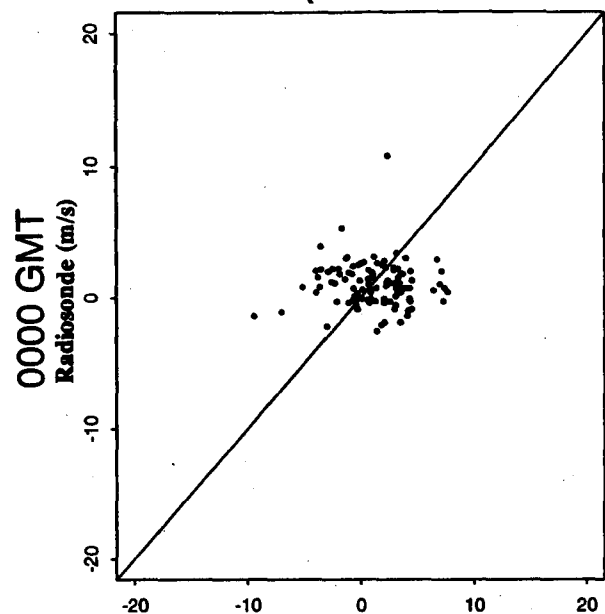
ELC (Radar Wind Profiler) - MYFR (Radiosonde), 2000M



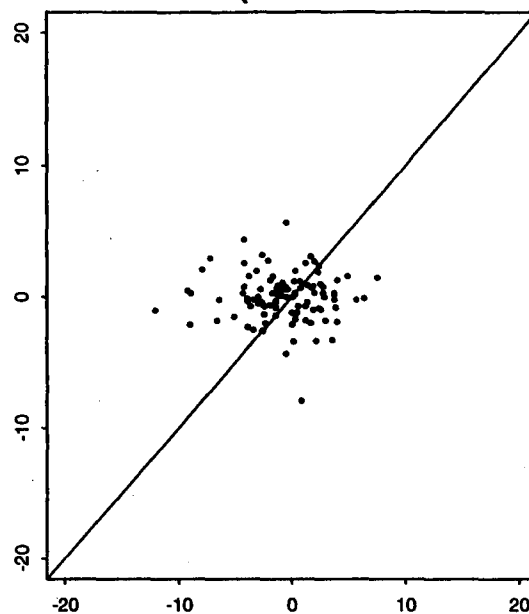
Appendix B2

**COMPARISON OF LOW AND HIGH RESOLUTION RADAR WIND PROFILER
(RWP) WIND DATA FOR THE SAN DIEGO (SDO) PROFILER SITE WITH THE
SAN DIEGO (MYFR) RADIOSONDE DATA**

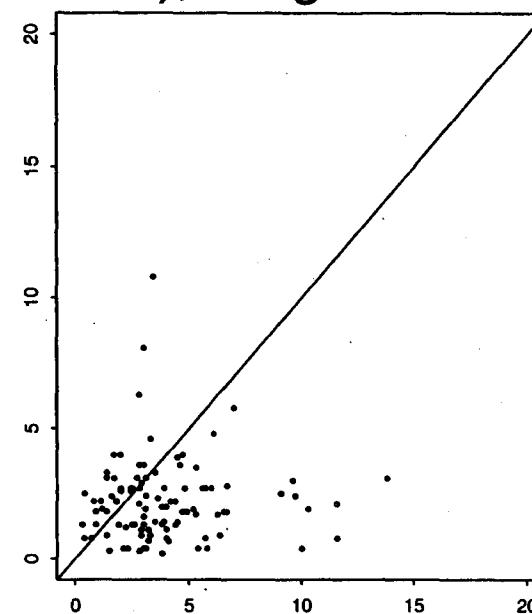
MYFR (Radiosonde) vs SDEH (Radar Wind Profiler), Height=1000M



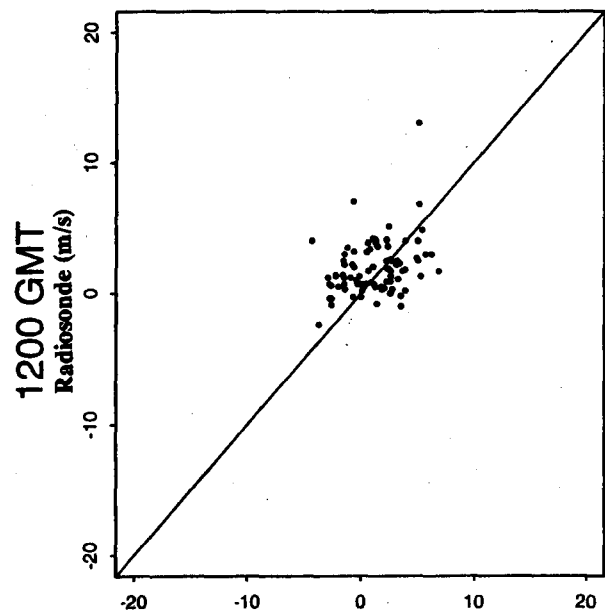
U-Component (m/s)



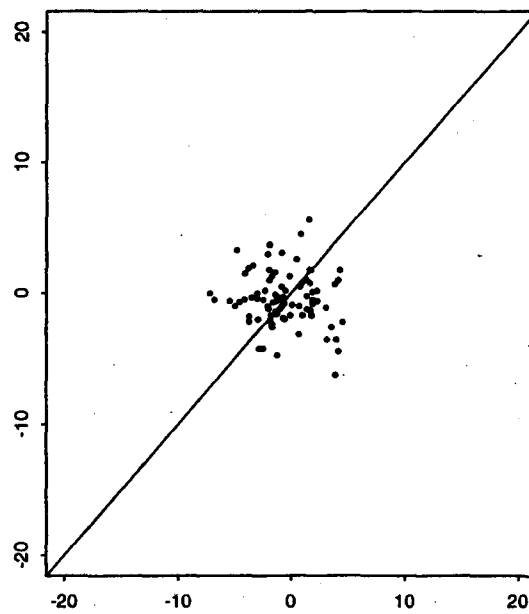
V-Component (m/s)



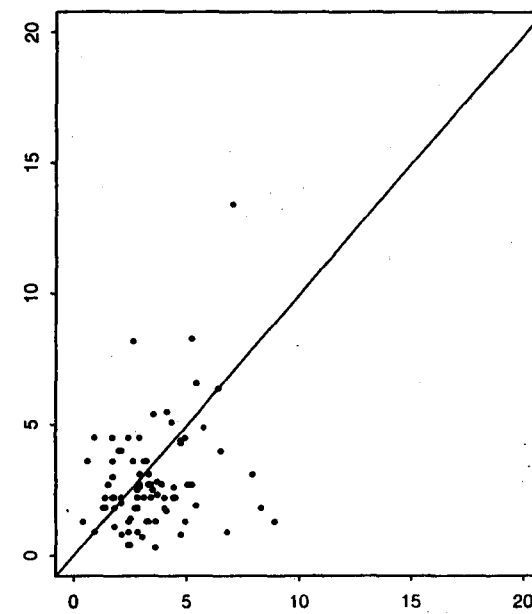
Wind Speed (m/s)



Radar Wind Profiler (m/s)

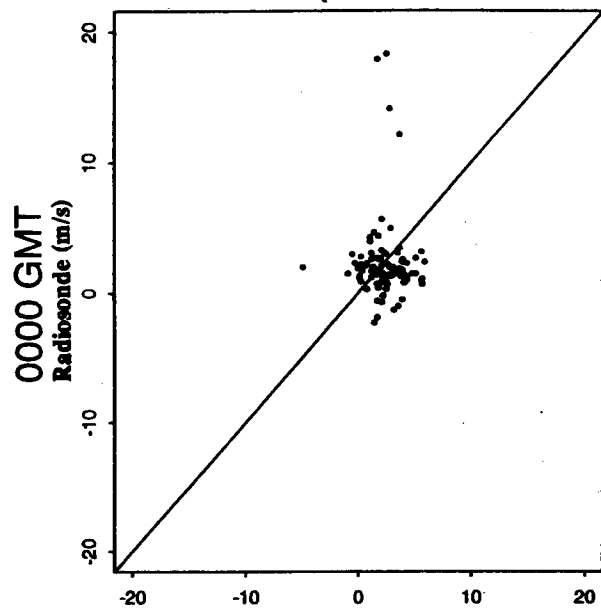


Radar Wind Profiler (m/s)

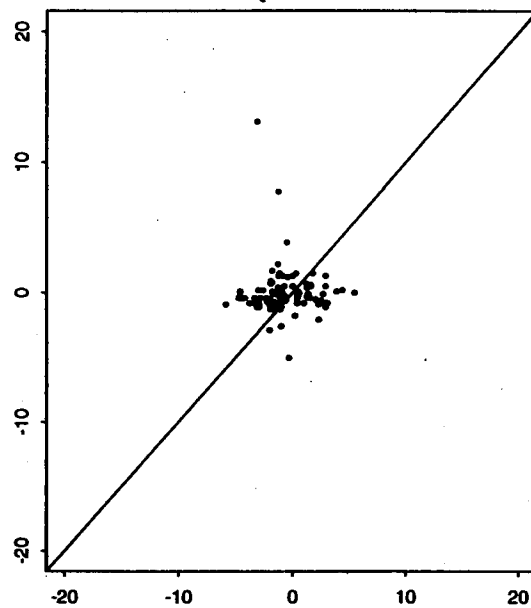


Radar Wind Profiler (m/s)

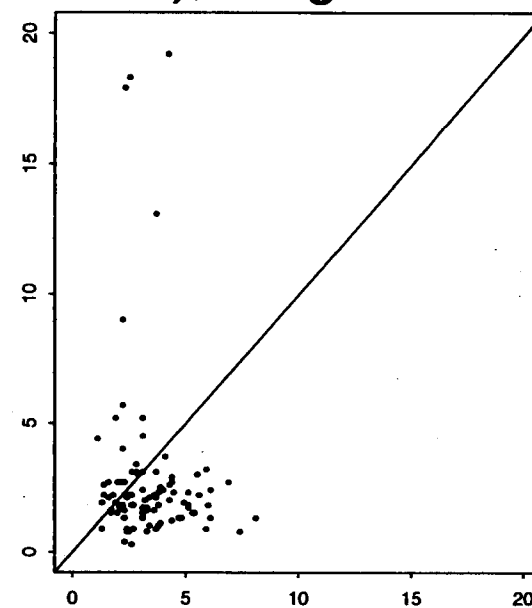
MYFR (Radiosonde) vs SDEH (Radar Wind Profiler), Height=300M



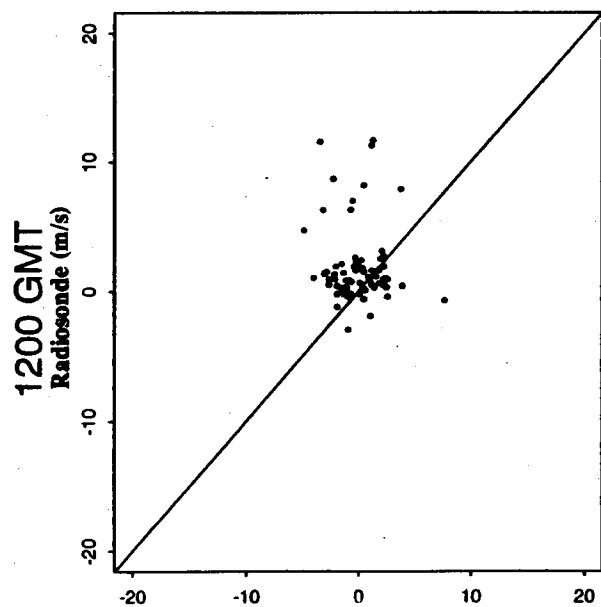
U-Component (m/s)



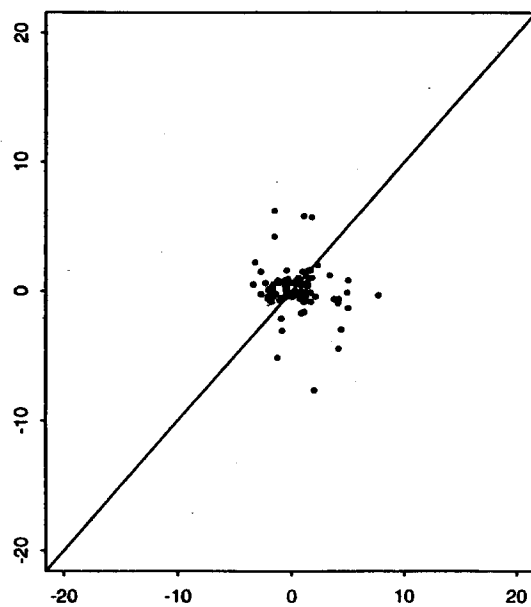
V-Component (m/s)



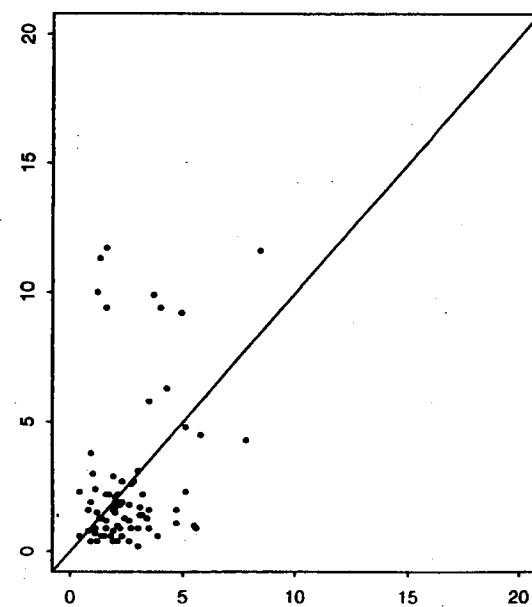
Wind Speed (m/s)



Radar Wind Profiler (m/s)



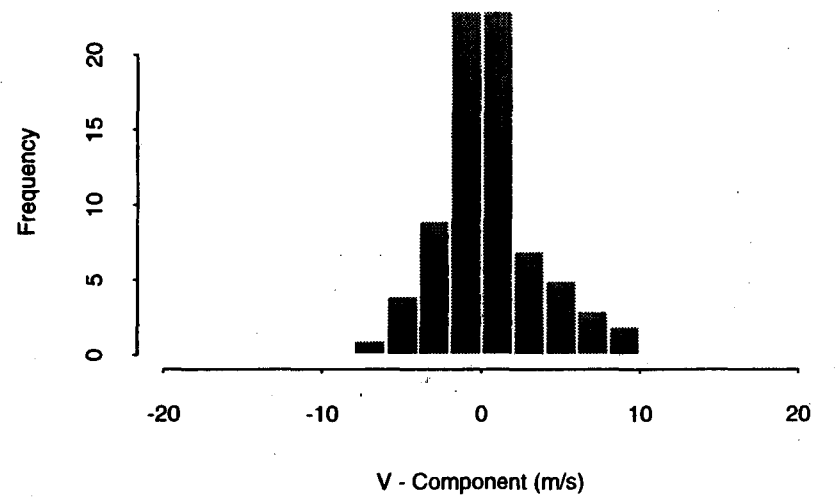
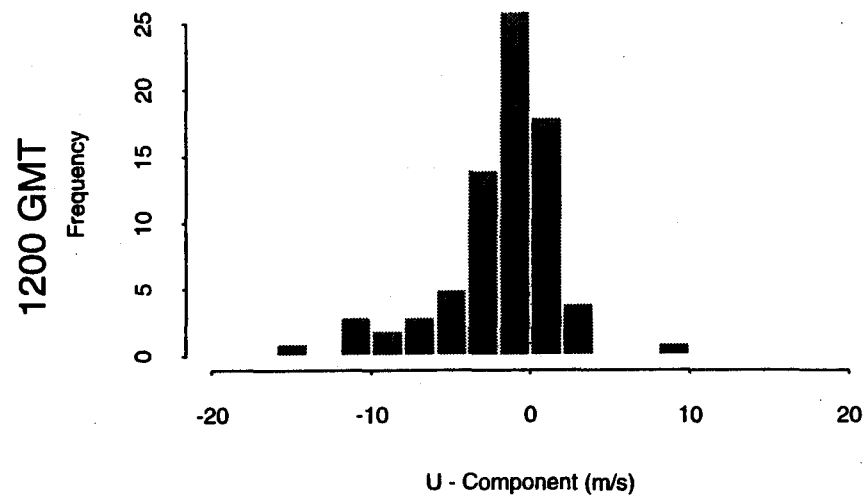
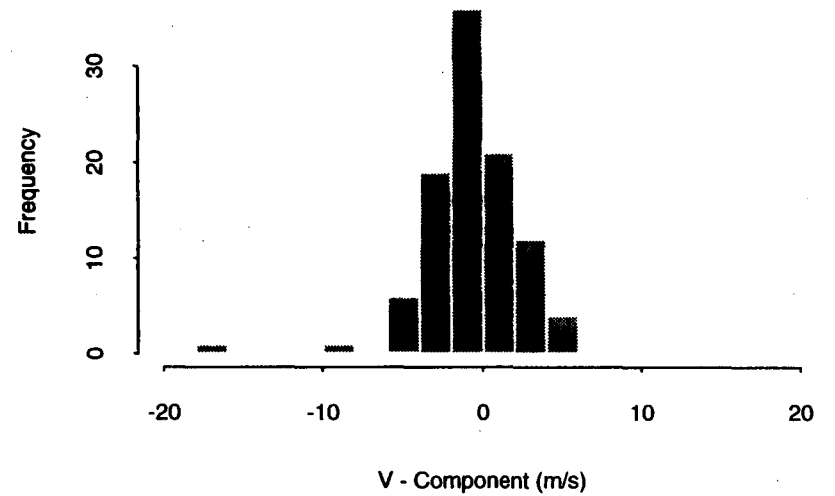
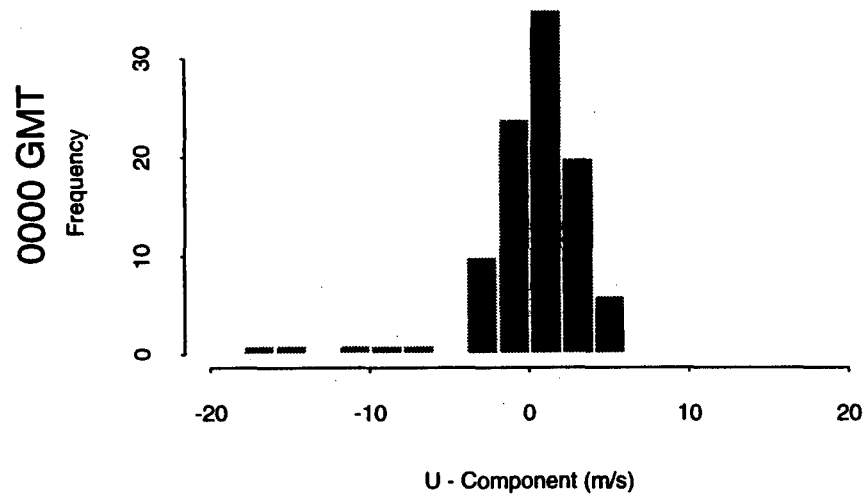
Radar Wind Profiler (m/s)



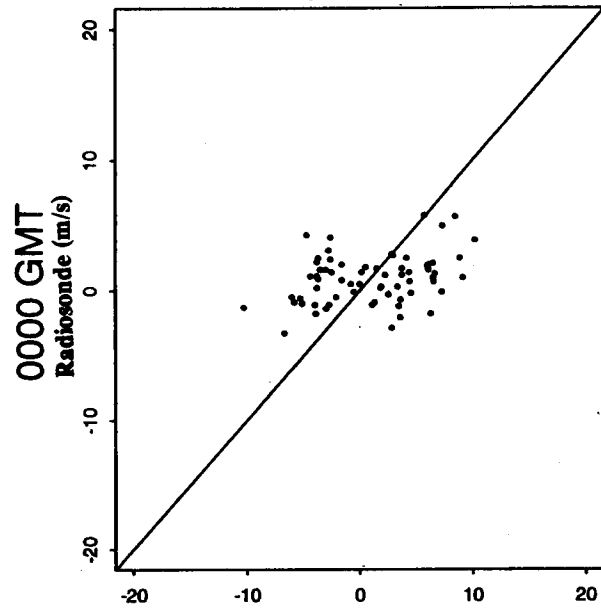
Radar Wind Profiler (m/s)

Frequency Distribution of Differences

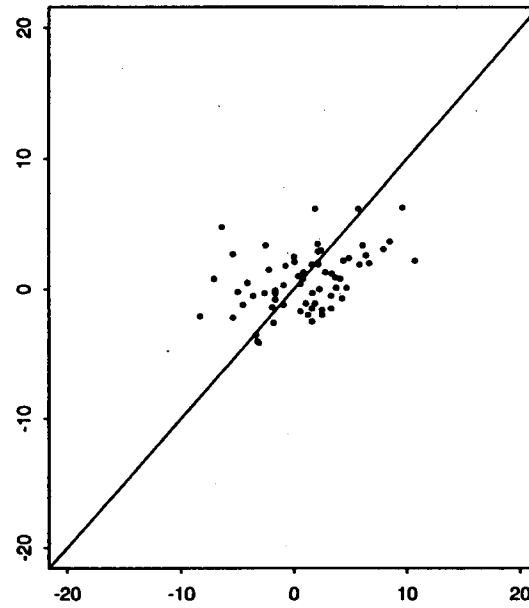
SDEH (Radar Wind Profiler) - MYFR (Radiosonde), 300M



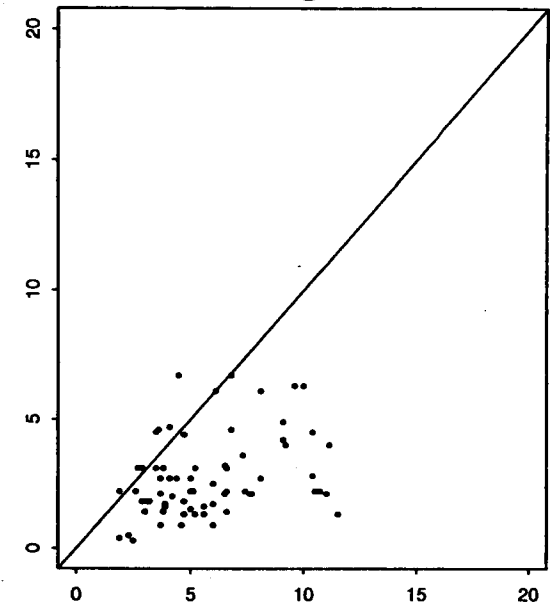
MYFR (Radiosonde) vs SDEH (Radar Wind Profiler), Height=2000M



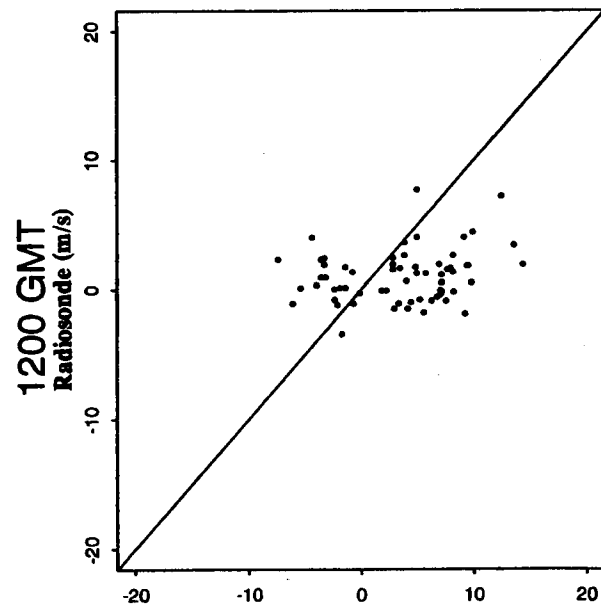
U-Component (m/s)



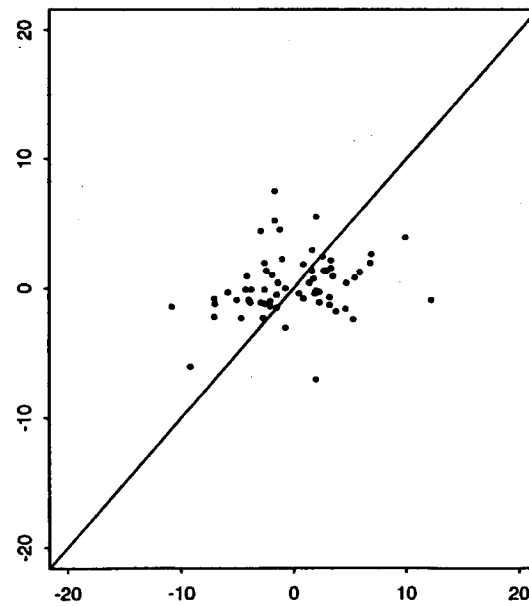
V-Component (m/s)



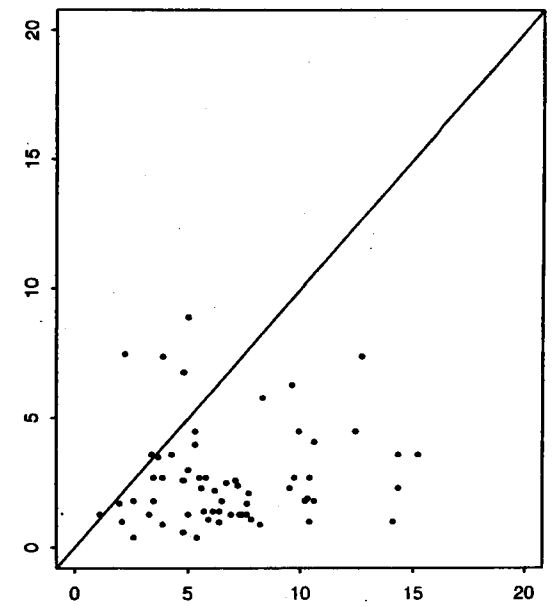
Wind Speed (m/s)



Radar Wind Profiler (m/s)



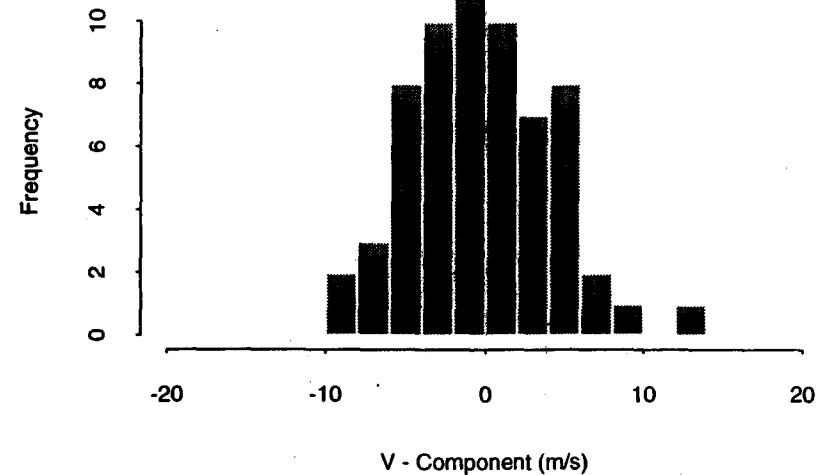
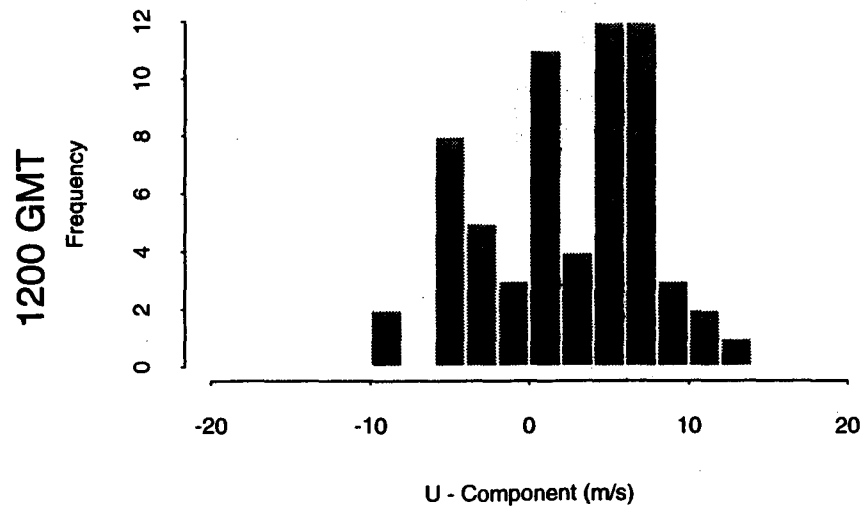
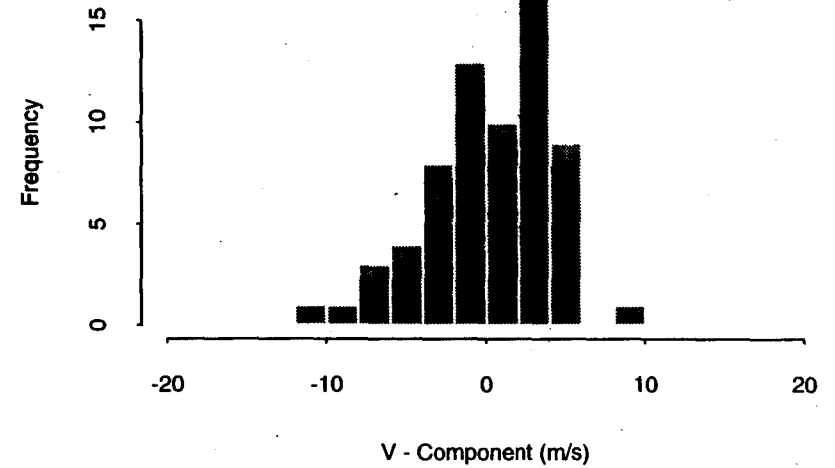
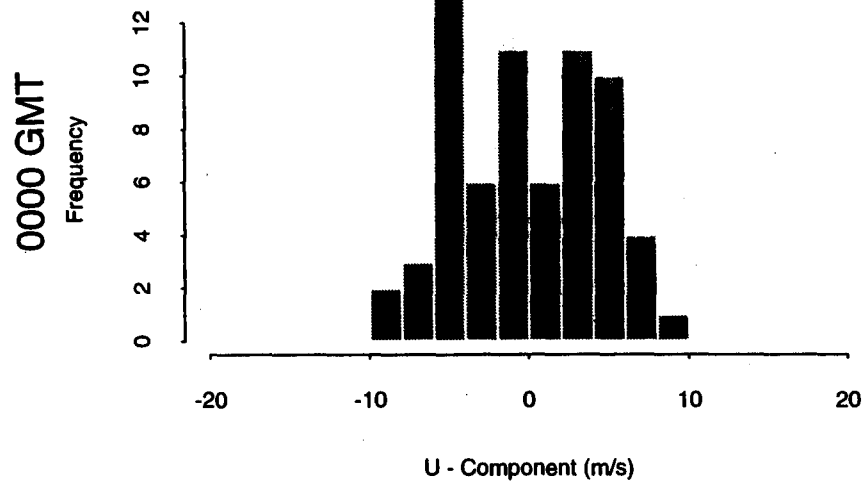
Radar Wind Profiler (m/s)



Radar Wind Profiler (m/s)

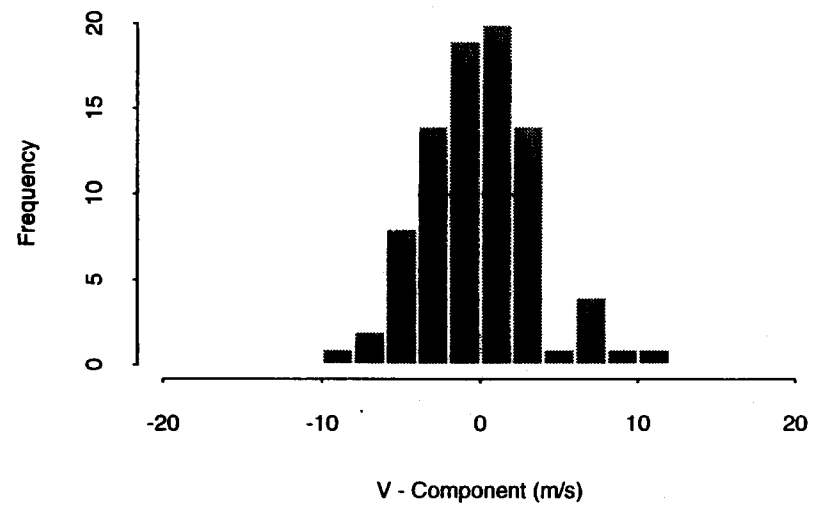
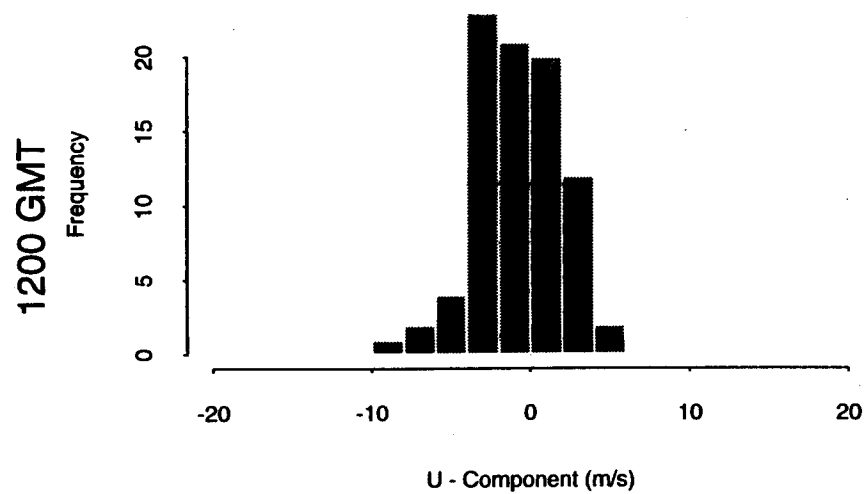
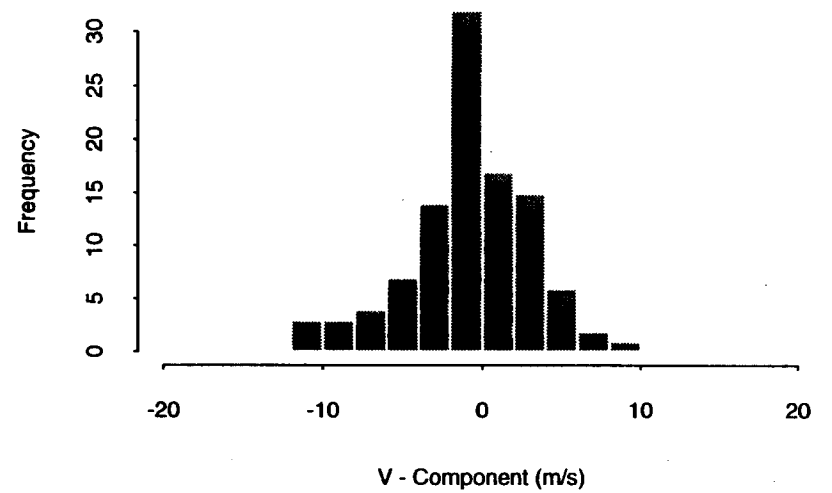
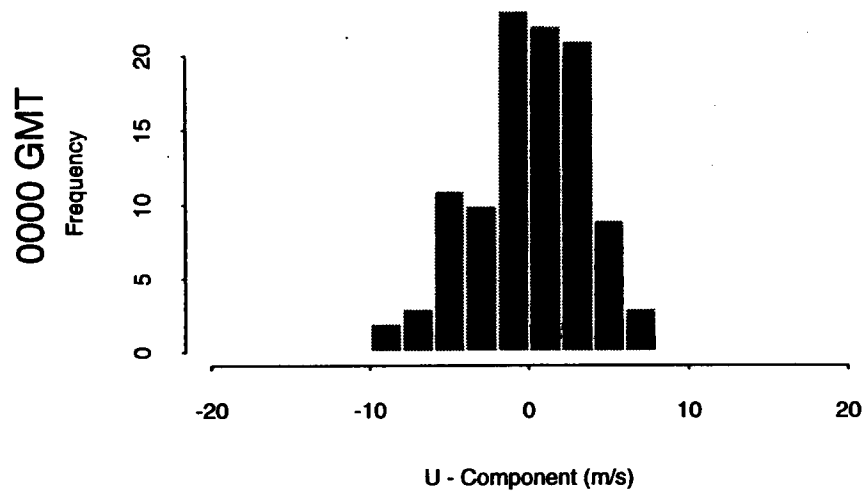
Frequency Distribution of Differences

SDEH (Radar Wind Profiler) - MYFR (Radiosonde), 2000M



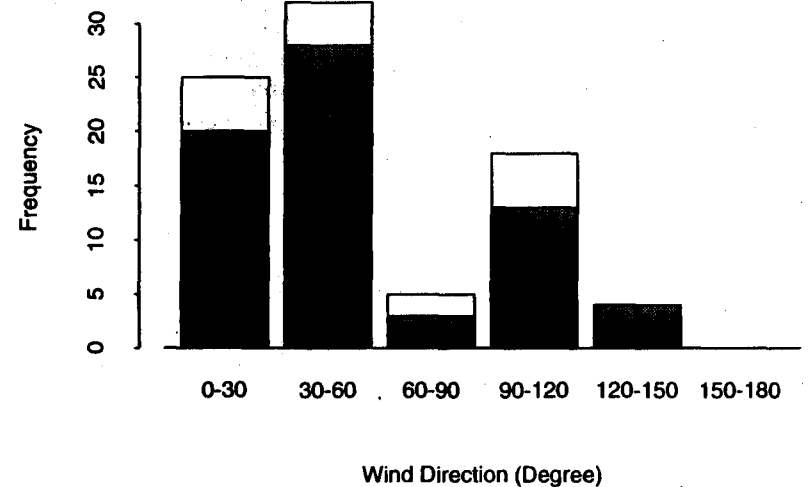
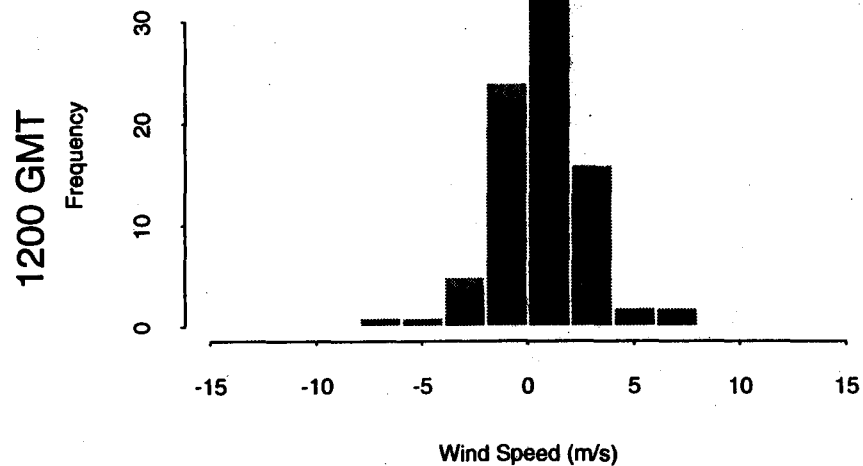
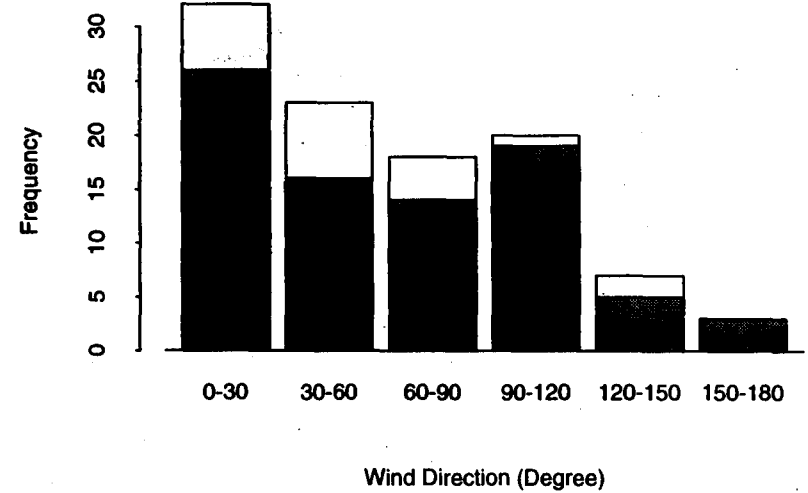
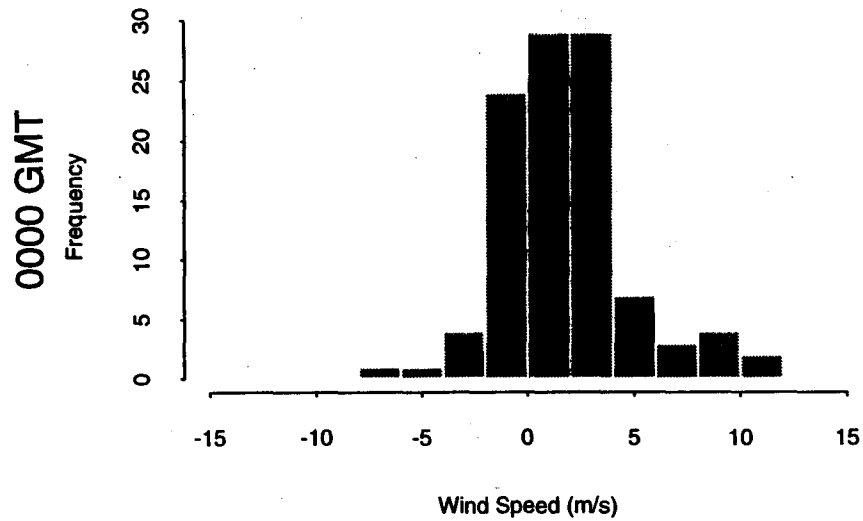
Frequency Distribution of Differences

SDEH (Radar Wind Profiler) - MYFR (Radiosonde), 1000M



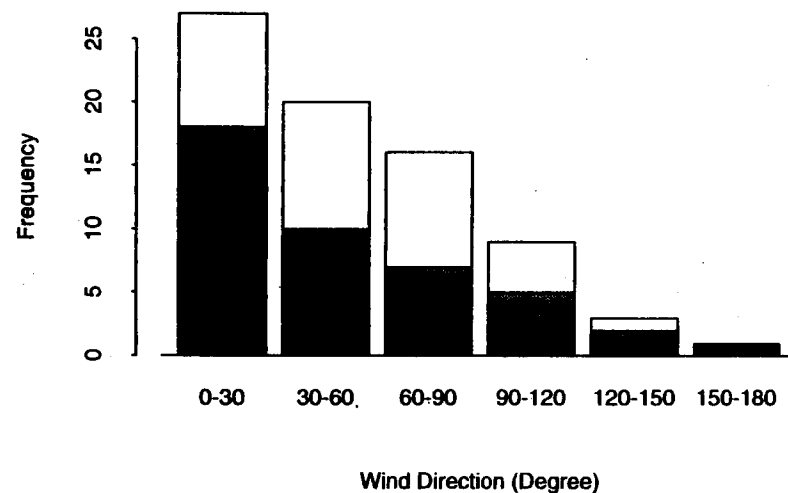
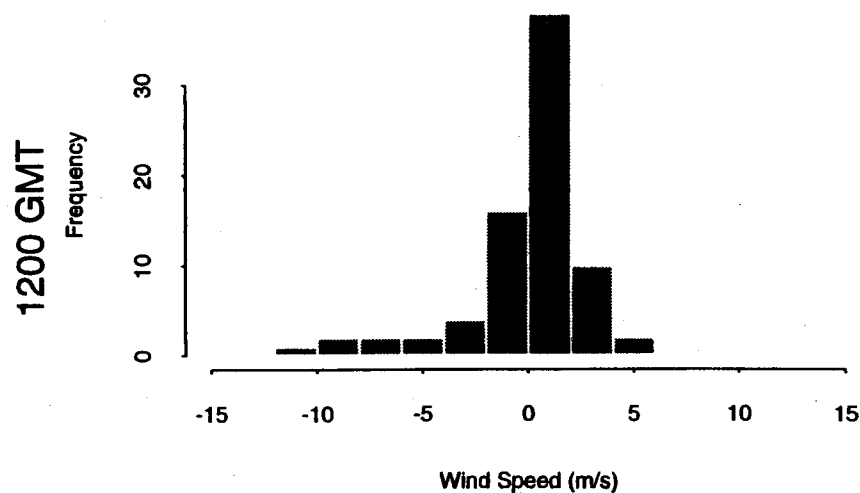
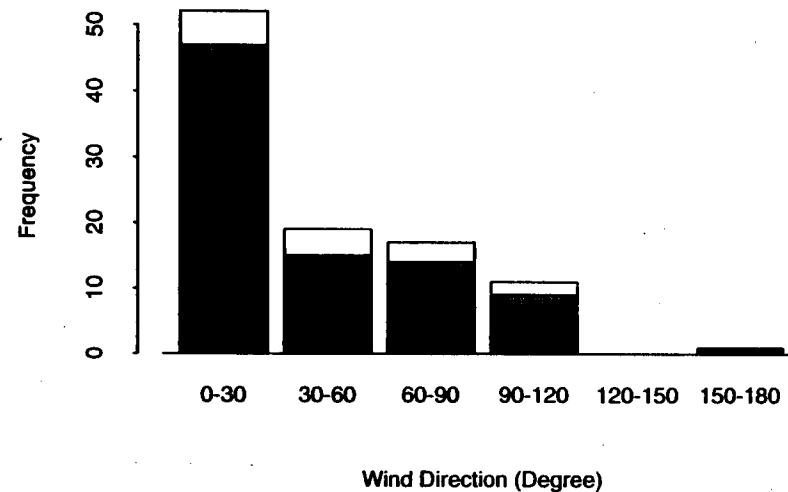
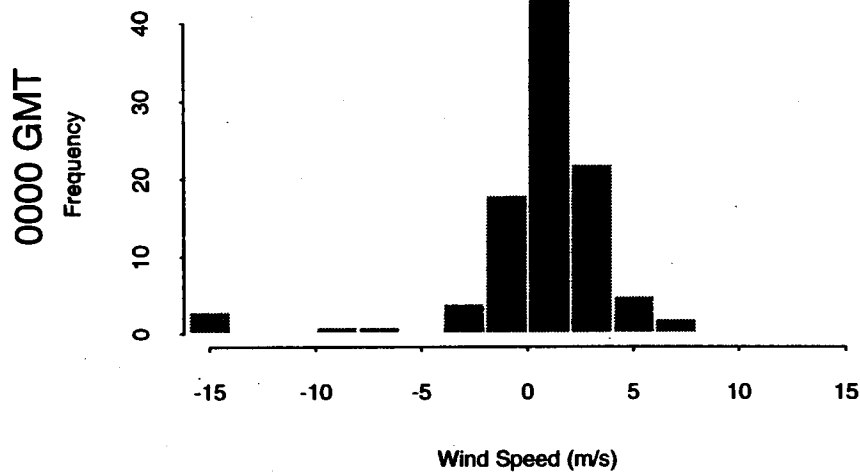
Frequency Distribution of Differences

SDEH (Radar Wind Profiler) - MYFR (Radiosonde), 1000M

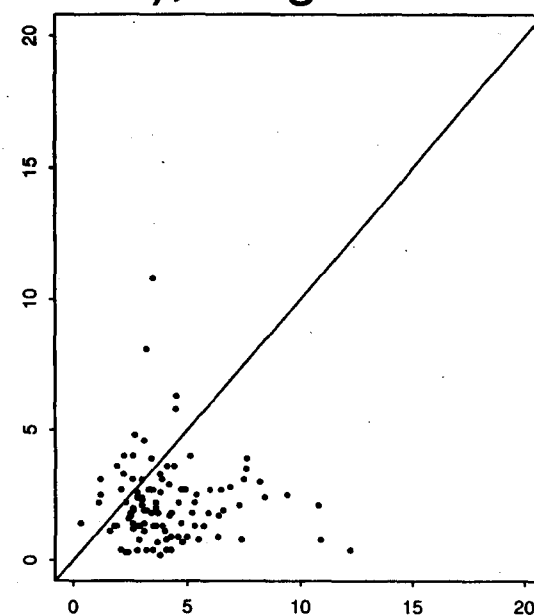
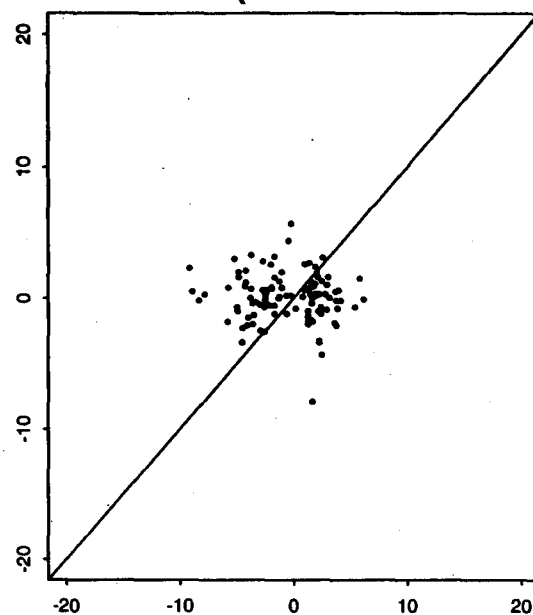
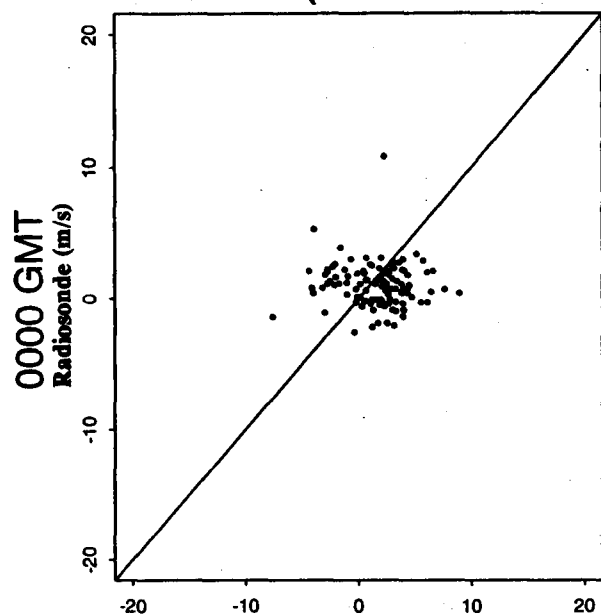


Frequency Distribution of Differences

SDEH (Radar Wind Profiler) - MYFR (Radiosonde), 300M



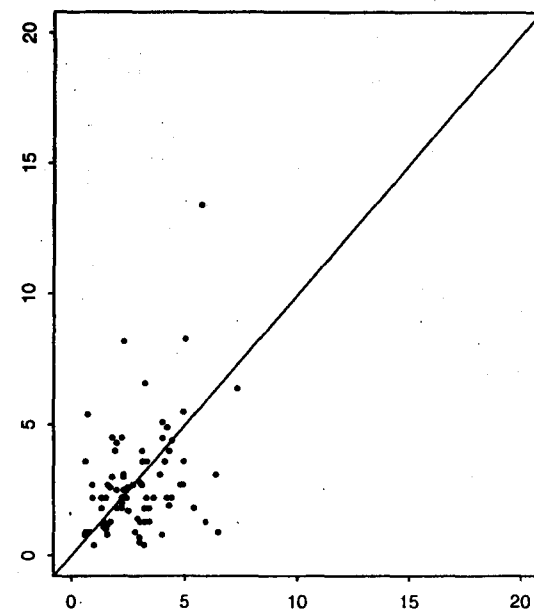
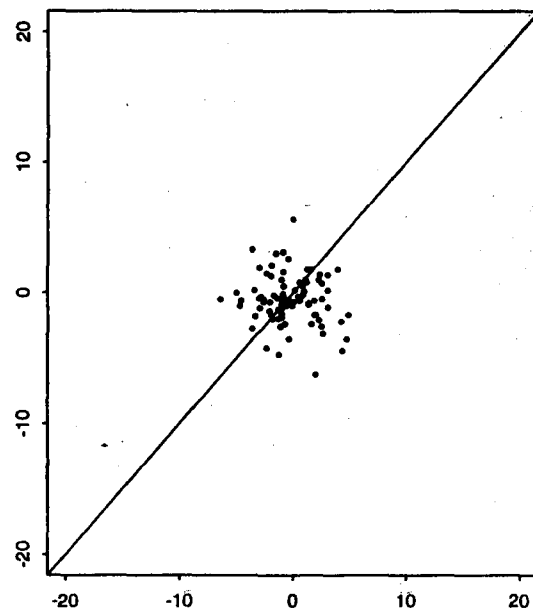
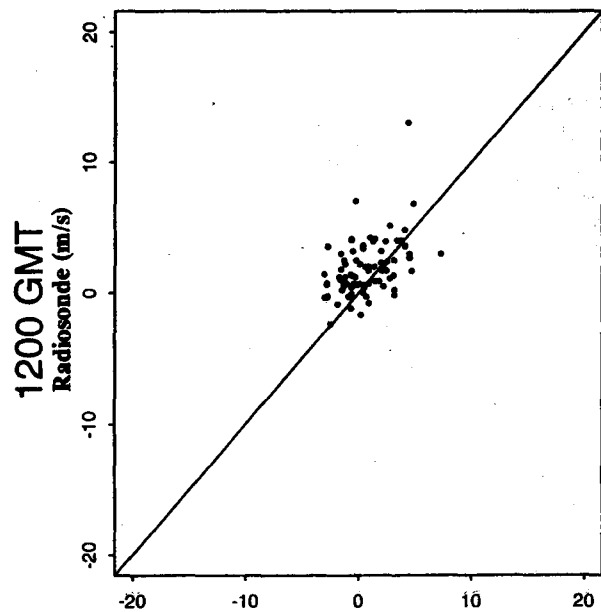
MYFR (Radiosonde) vs SDEL (Radar Wind Profiler), Height=1000M



U-Component (m/s)

V-Component (m/s)

Wind Speed (m/s)



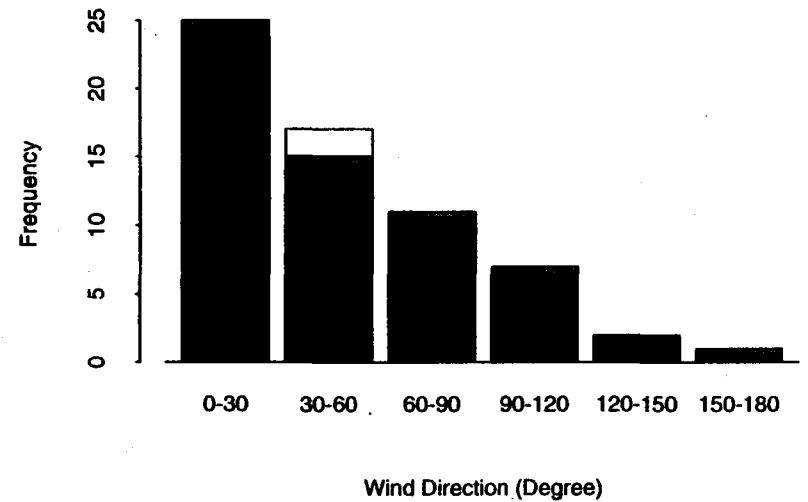
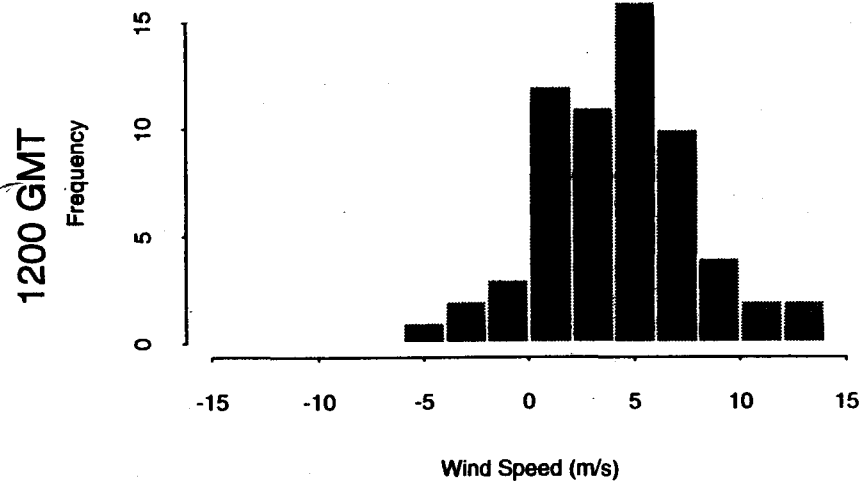
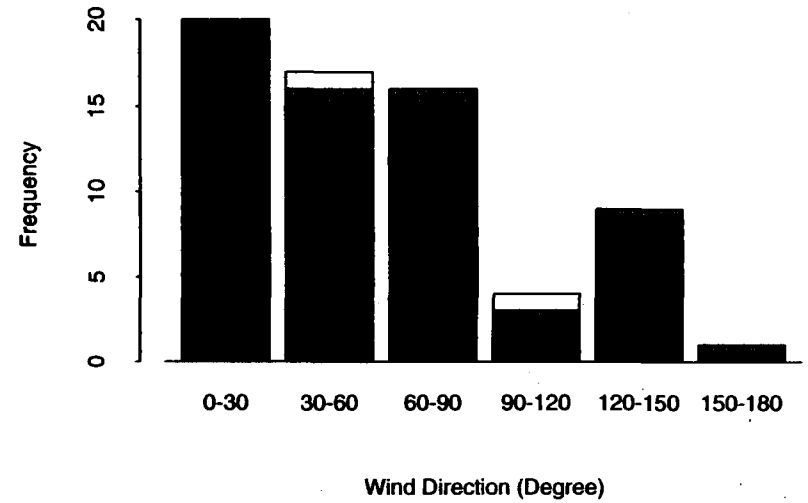
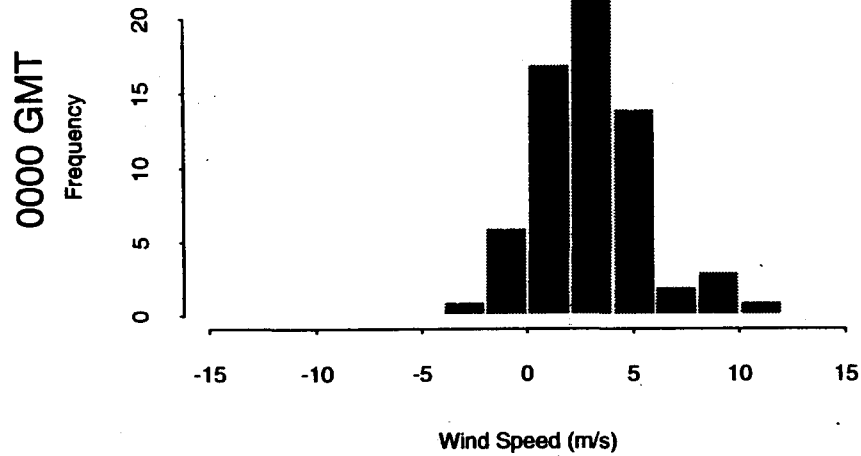
Radar Wind Profiler (m/s)

Radar Wind Profiler (m/s)

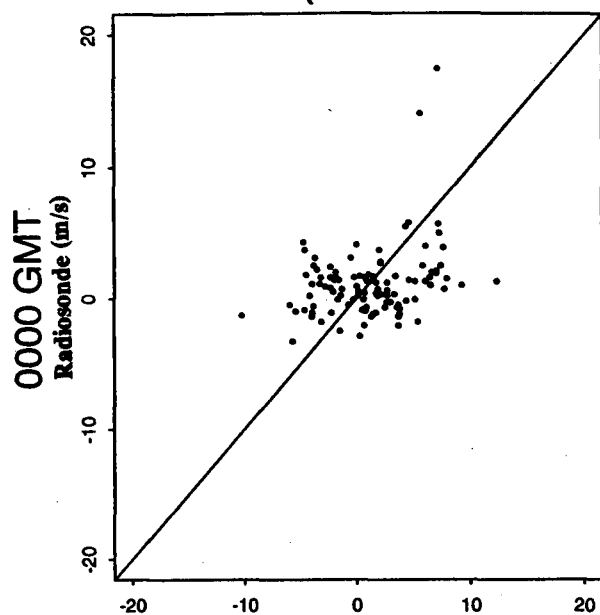
Radar Wind Profiler (m/s)

Frequency Distribution of Differences

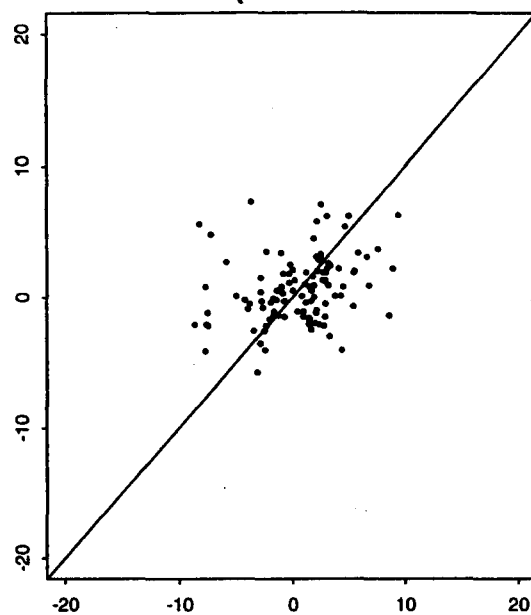
SDEH (Radar Wind Profiler) - MYFR (Radiosonde), 2000M



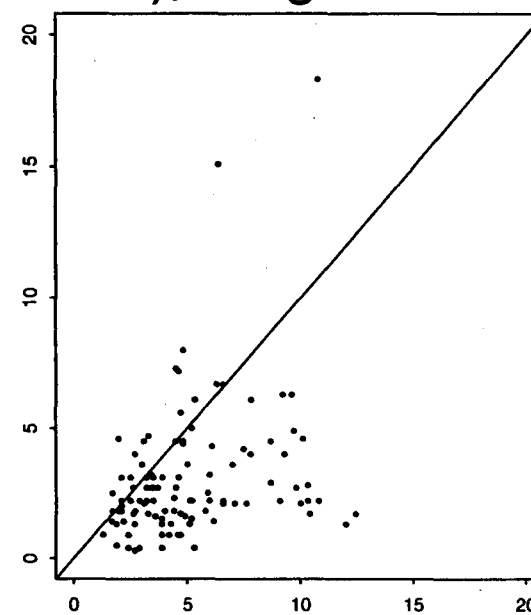
MYFR (Radiosonde) vs SDEL (Radar Wind Profiler), Height=2000M



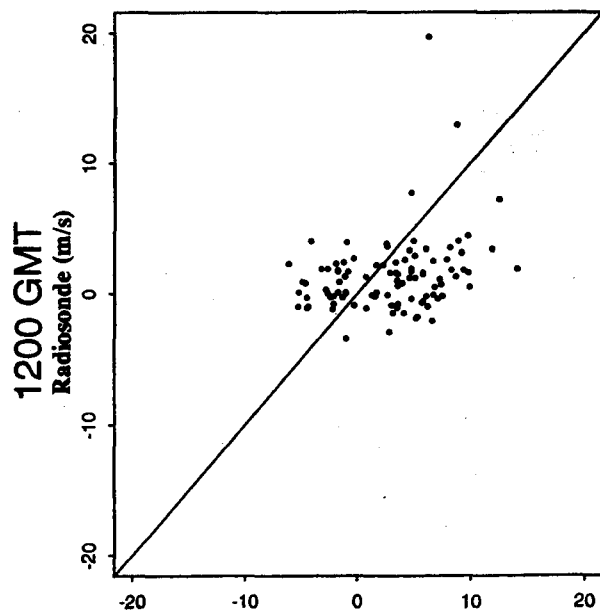
U-Component (m/s)



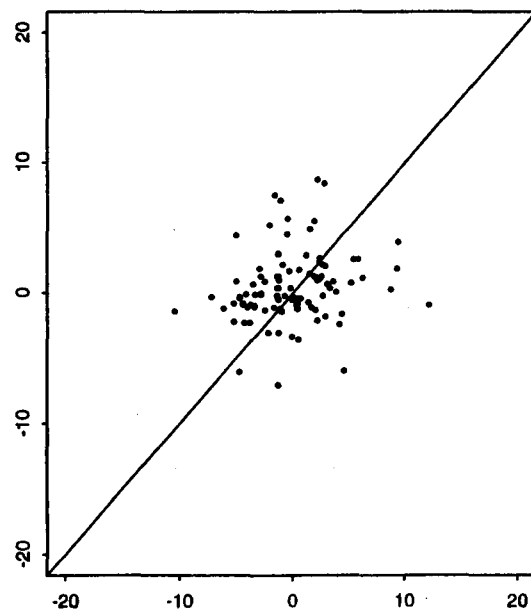
V-Component (m/s)



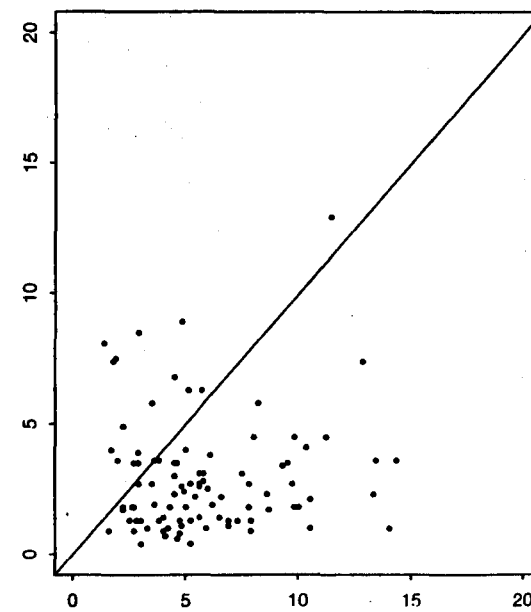
Wind Speed (m/s)



Radar Wind Profiler (m/s)



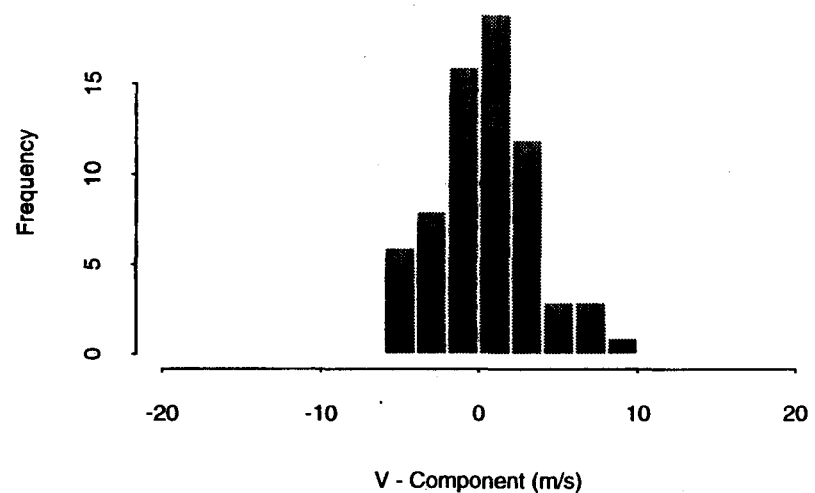
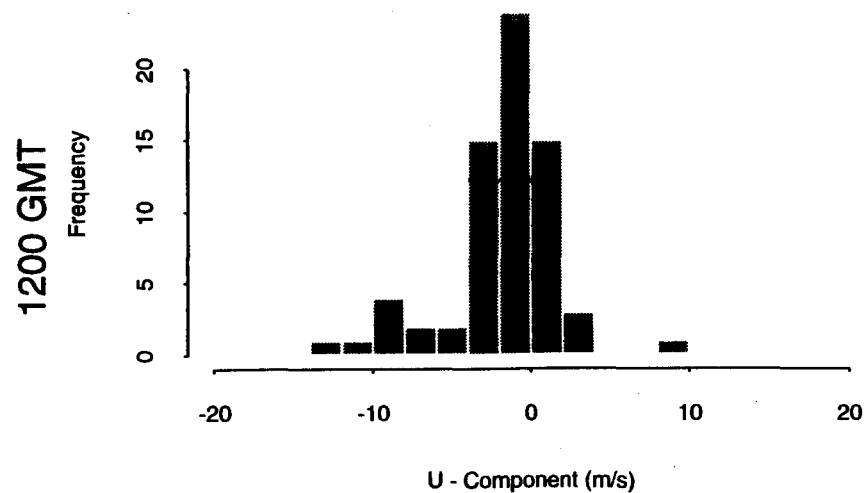
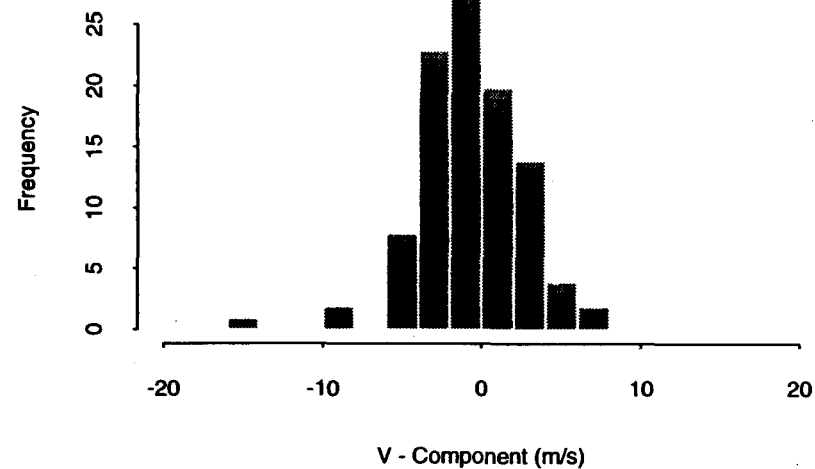
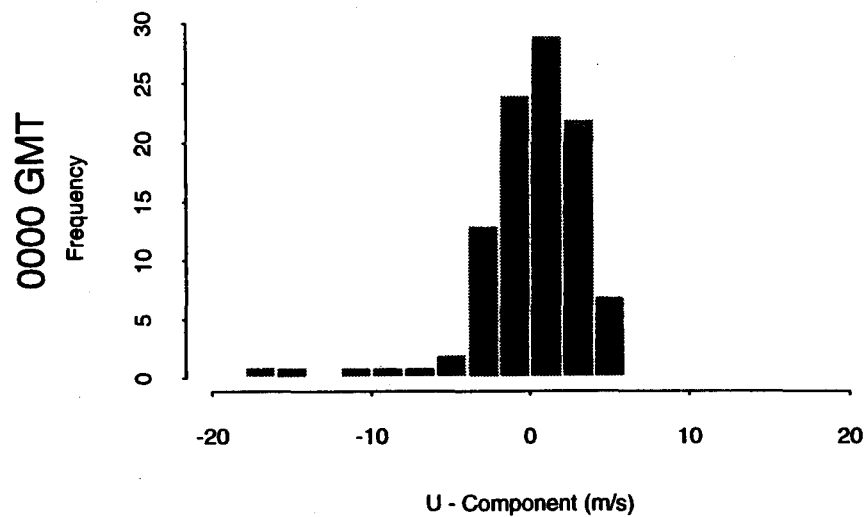
Radar Wind Profiler (m/s)



Radar Wind Profiler (m/s)

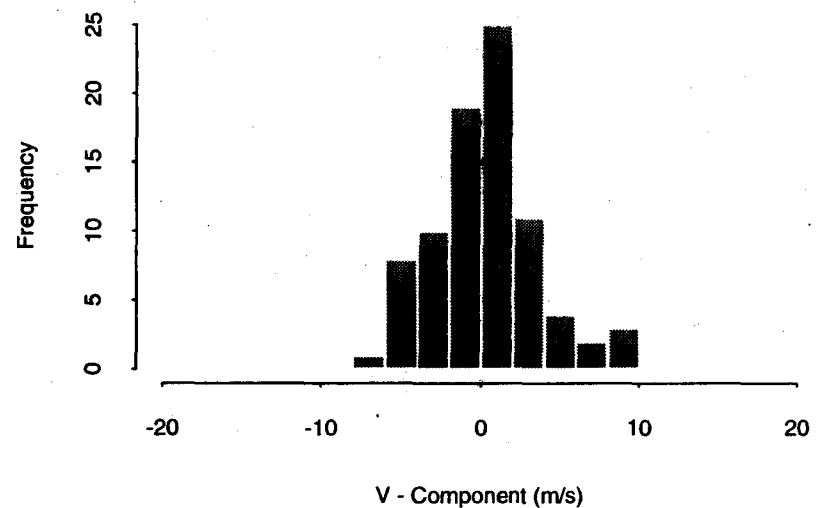
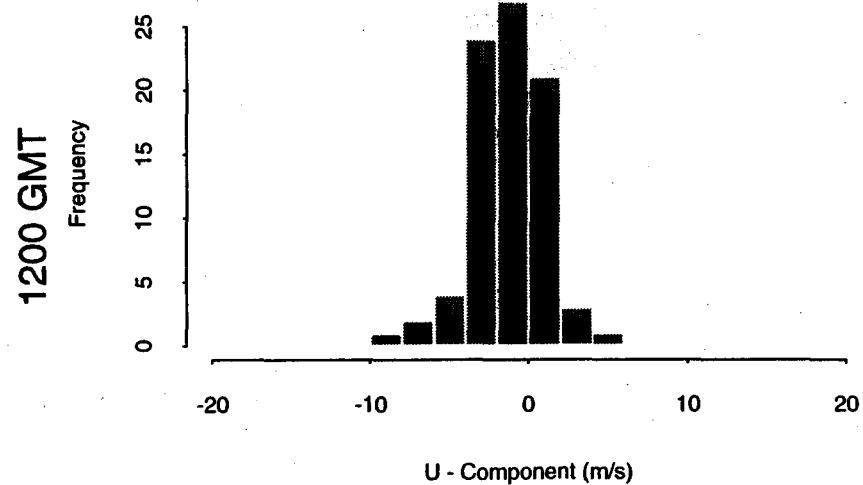
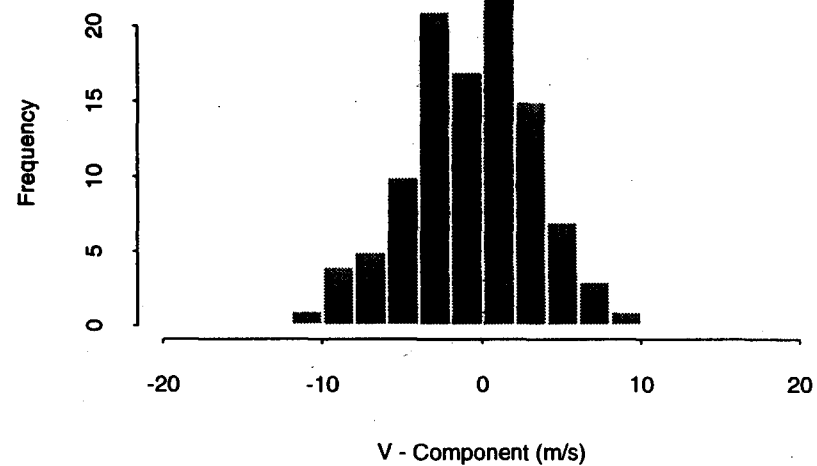
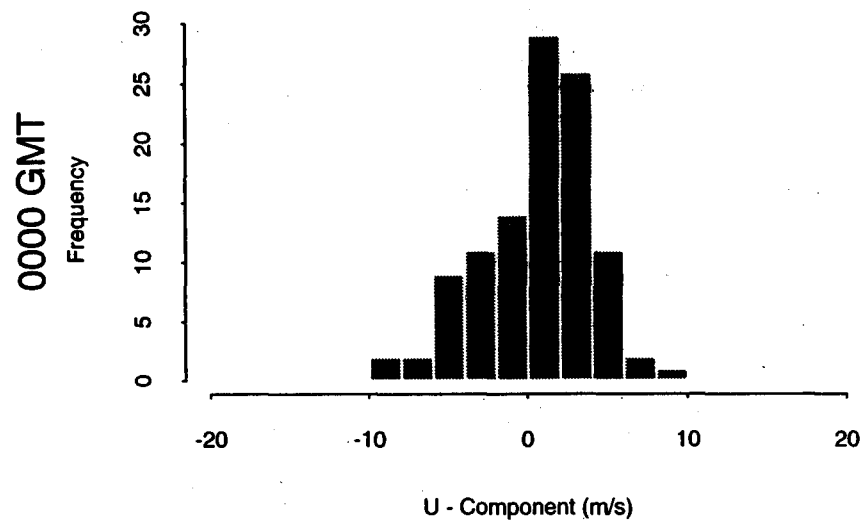
Frequency Distribution of Differences

SDEL (Radar Wind Profiler) - MYFR (Radiosonde), 300M



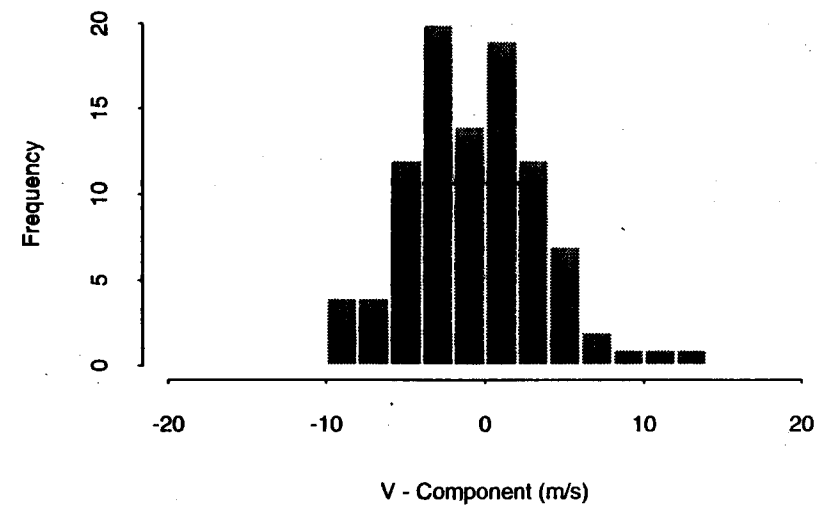
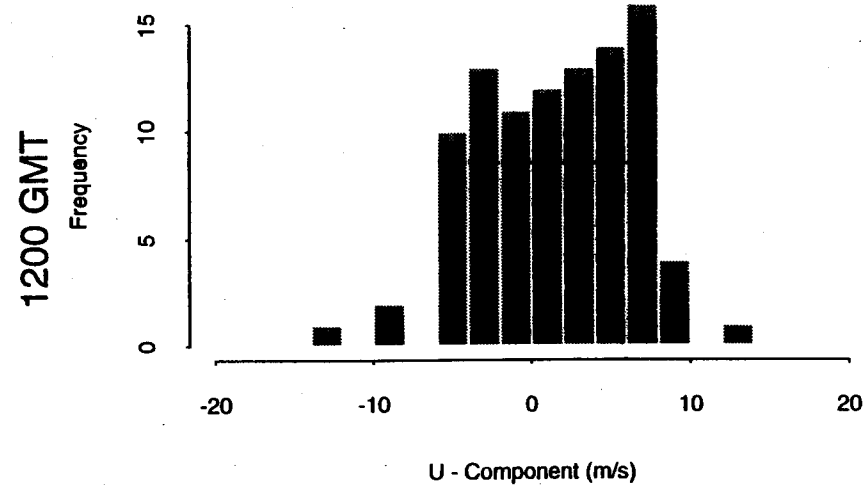
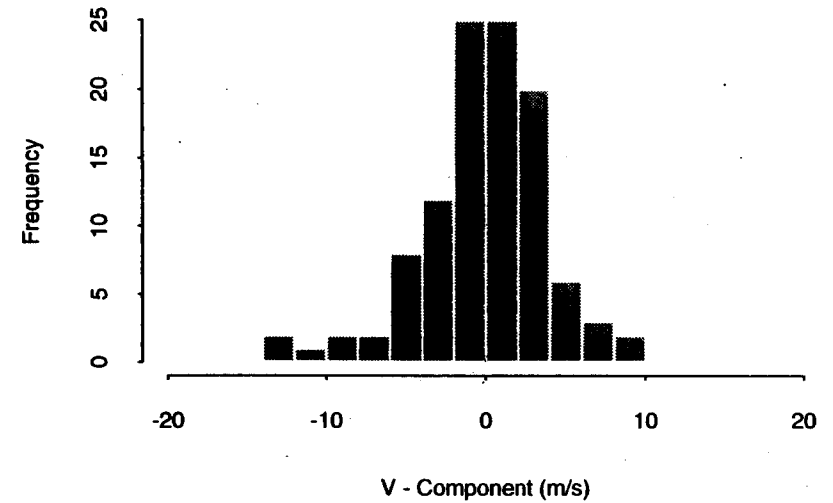
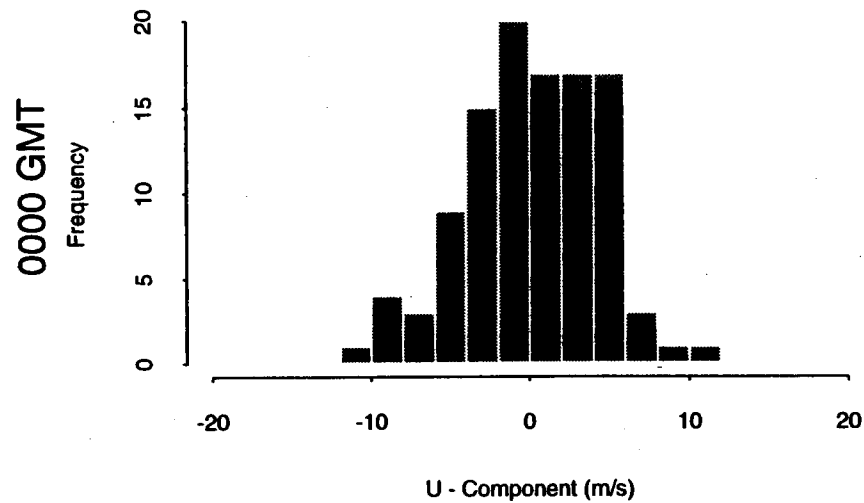
Frequency Distribution of Differences

SDEL (Radar Wind Profiler) - MYFR (Radiosonde), 1000M



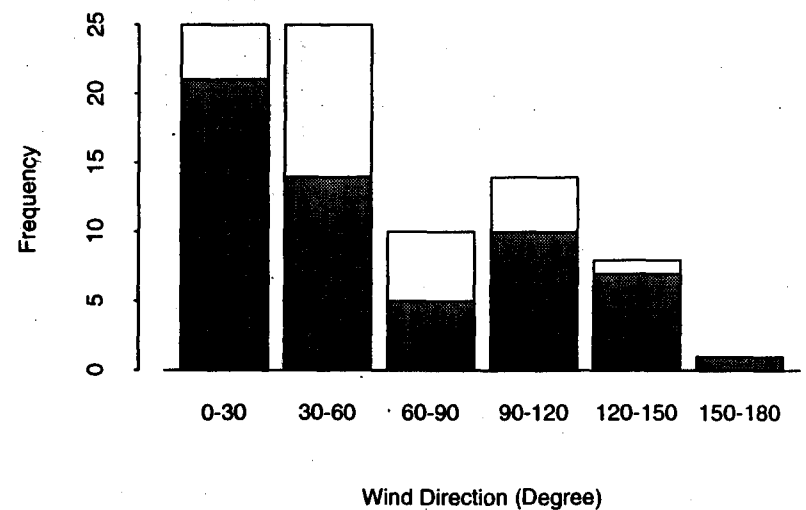
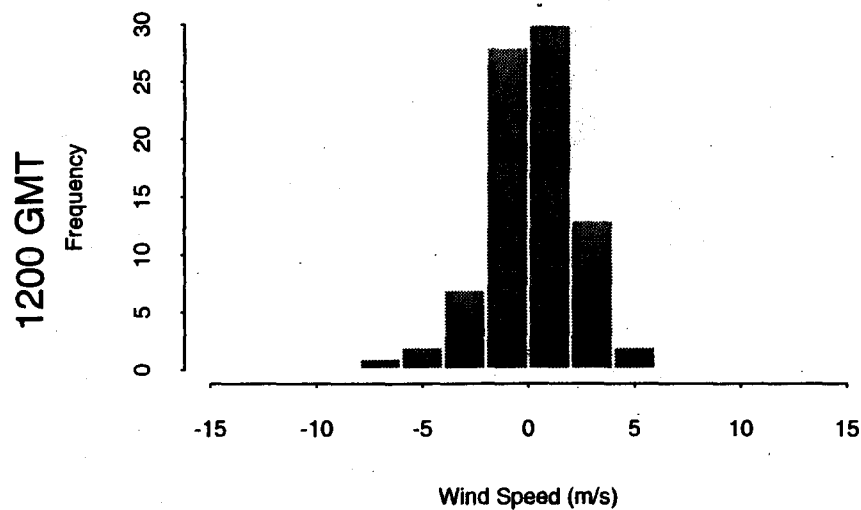
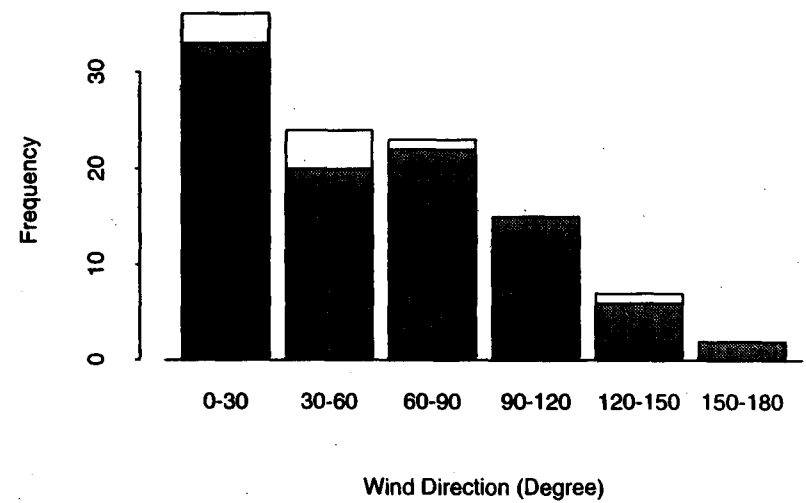
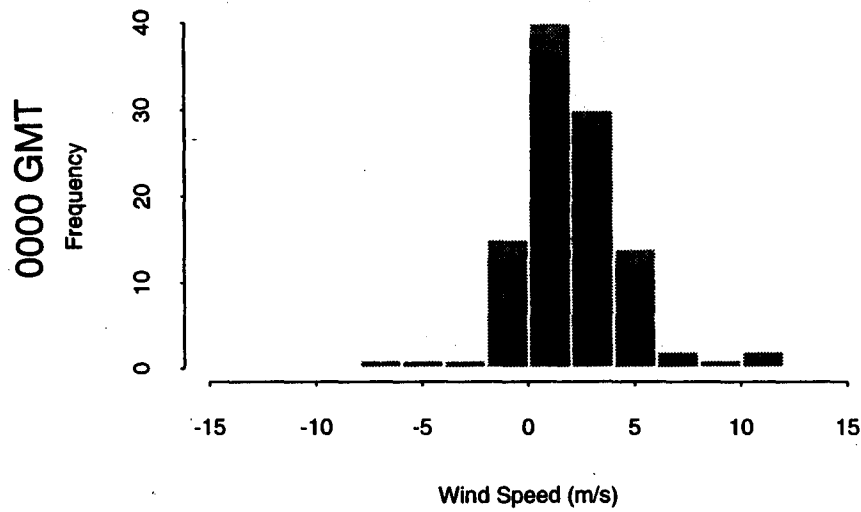
Frequency Distribution of Differences

SDEL (Radar Wind Profiler) - MYFR (Radiosonde), 2000M



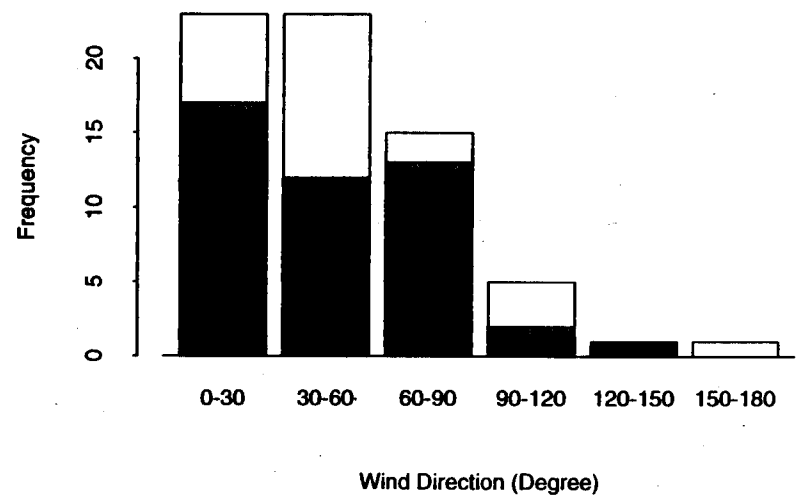
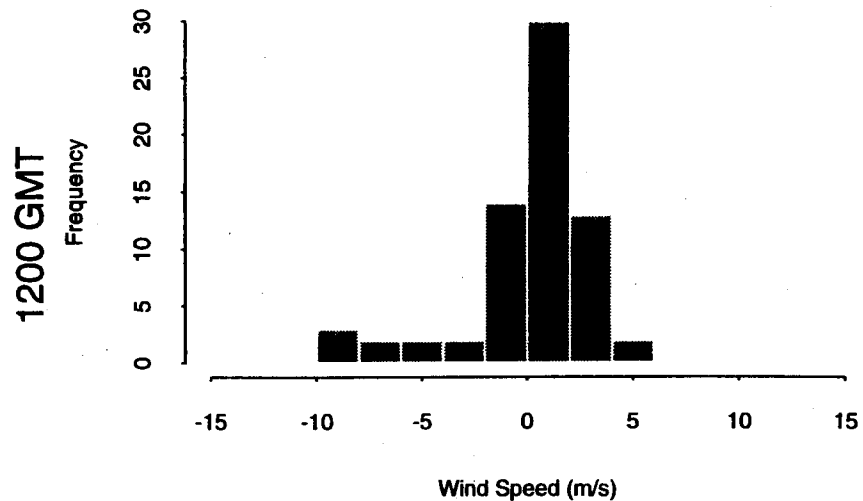
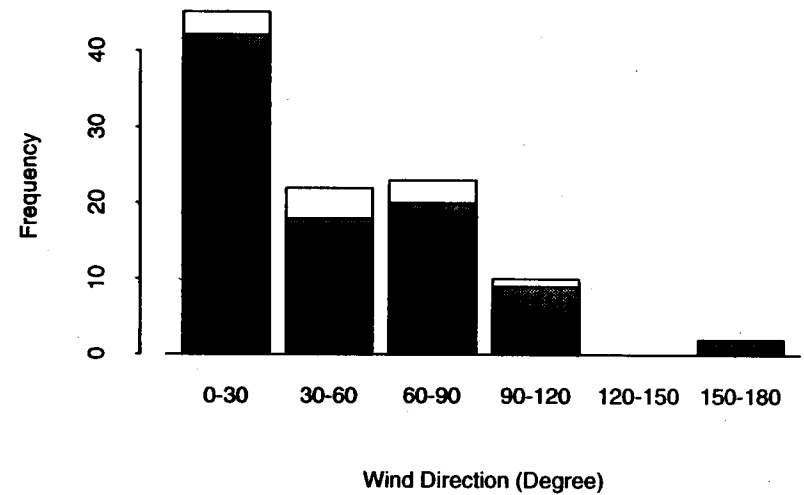
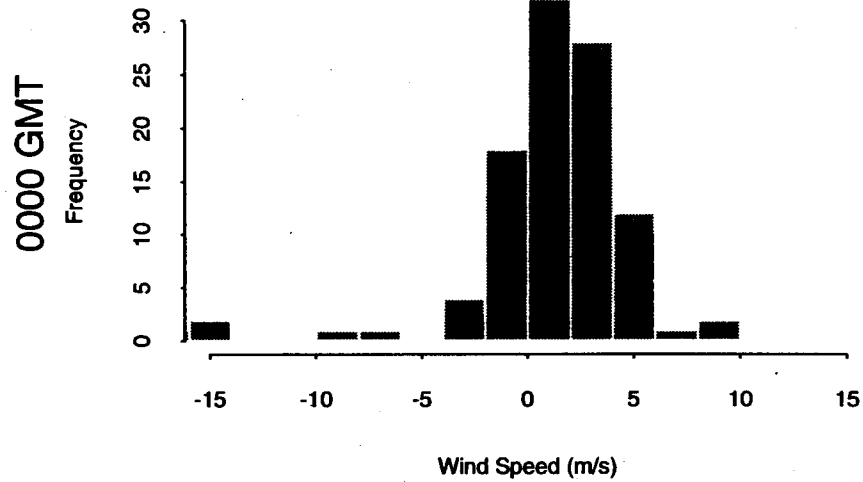
Frequency Distribution of Differences

SDEL (Radar Wind Profiler) - MYFR (Radiosonde), 1000M



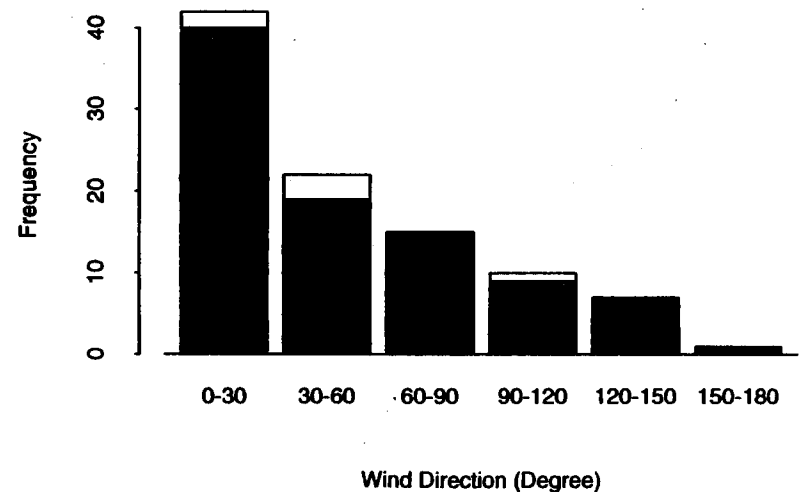
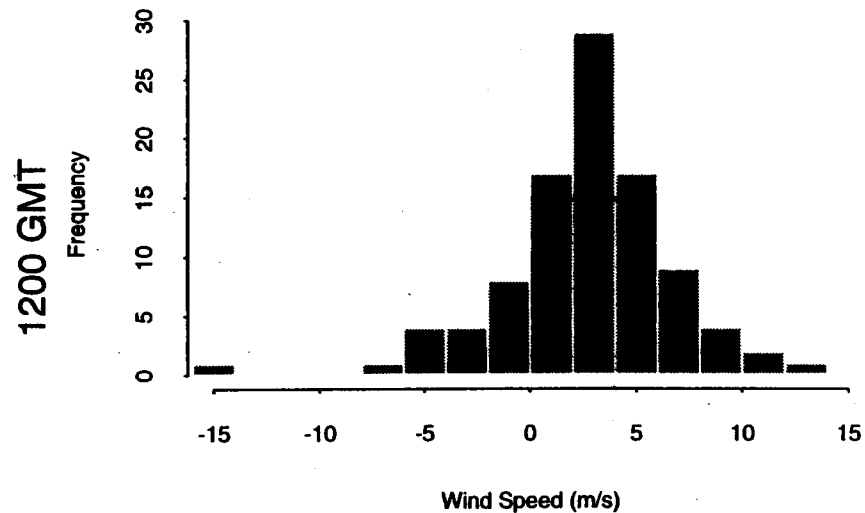
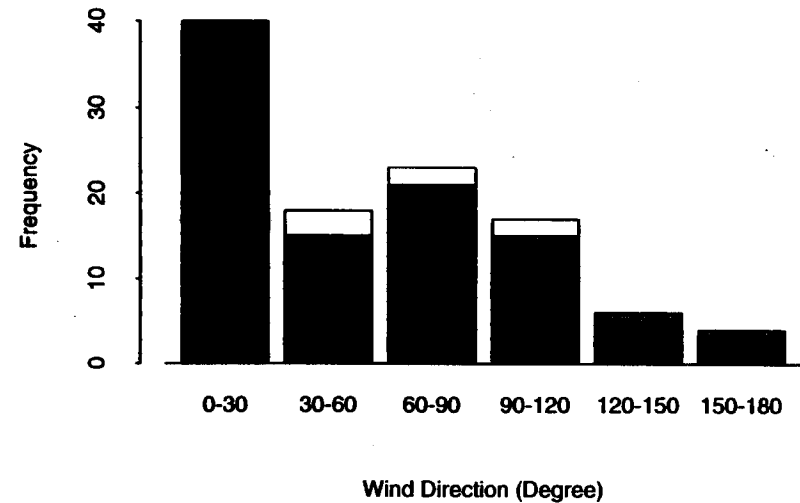
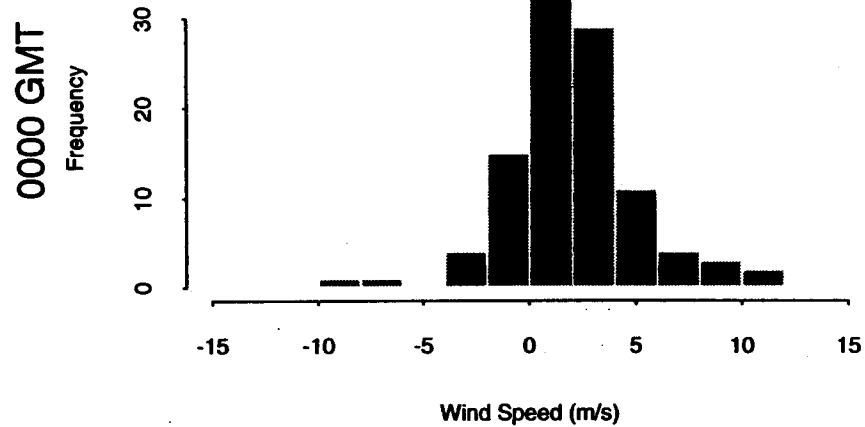
Frequency Distribution of Differences

SDEL (Radar Wind Profiler) - MYFR (Radiosonde), 300M



Frequency Distribution of Differences

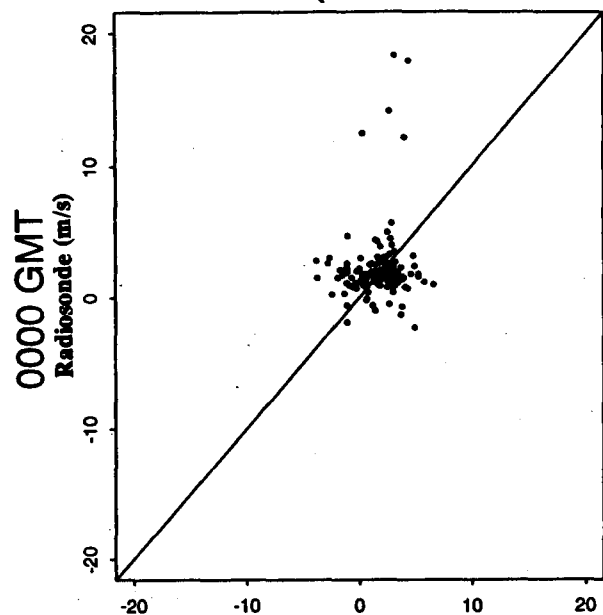
SDEL (Radar Wind Profiler) - MYFR (Radiosonde), 2000M



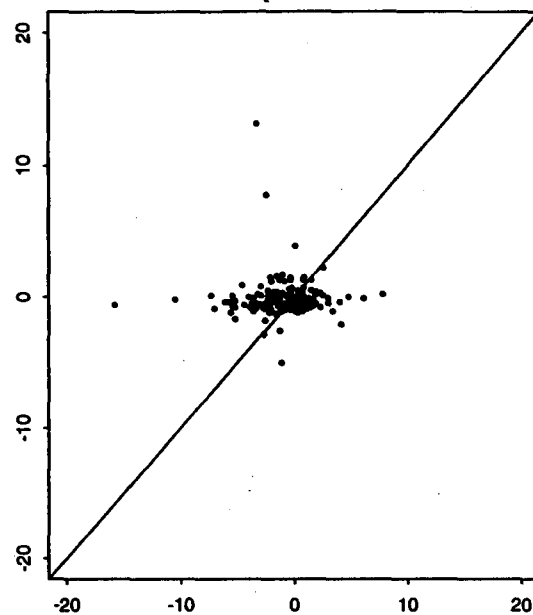
Appendix B3

**SCATTER PLOTS OF U AND V WIND COMPONENTS AND WIND SPEEDS AND
HISTOGRAMS OF DIFFERENCES BETWEEN U AND V WIND COMPONENT,
WIND SPEED, AND WIND DIRECTION DATA FOR UNEDITED RADAR WIND
PROFILER (RWP) WIND DATA FOR THE SAN DIEGO (SDO) PROFILER SITE
AND THE SAN DIEGO (MYFR) RADIOSONDE DATA**

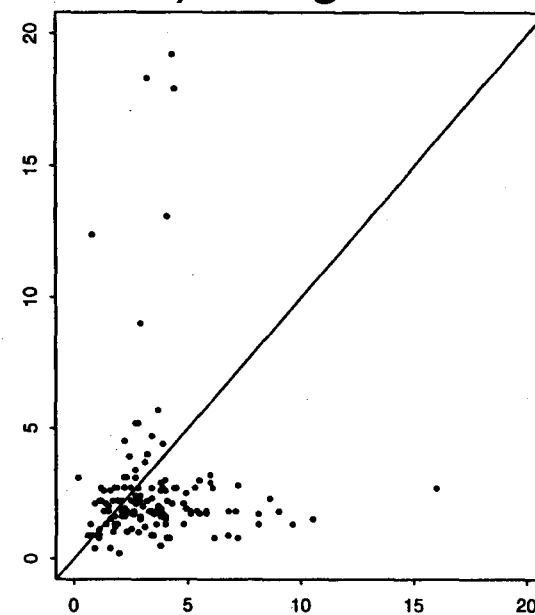
MYFR (Radiosonde) vs SDOR (Radar Wind Profiler), Height=300M



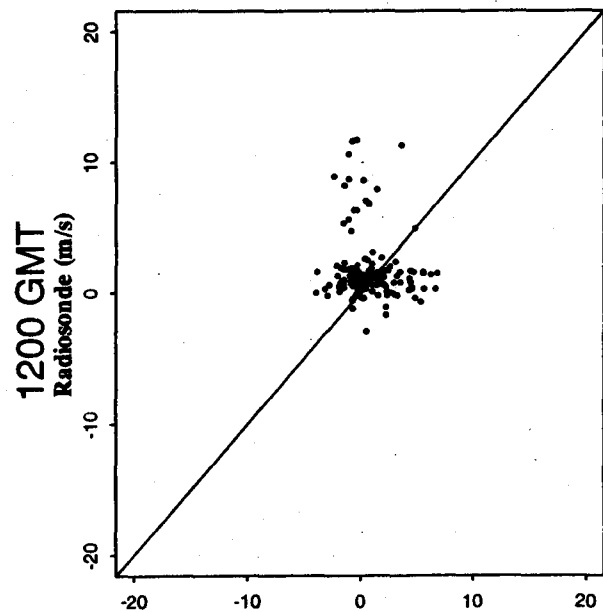
U-Component (m/s)



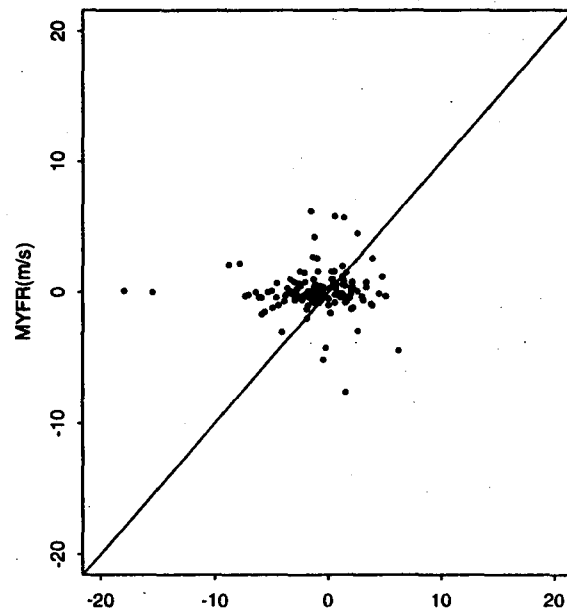
V-Component (m/s)



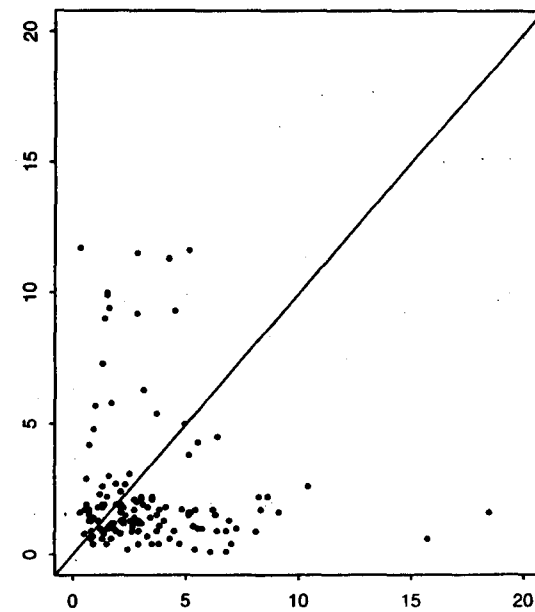
Wind Speed (m/s)



Radar Wind Profiler (m/s)

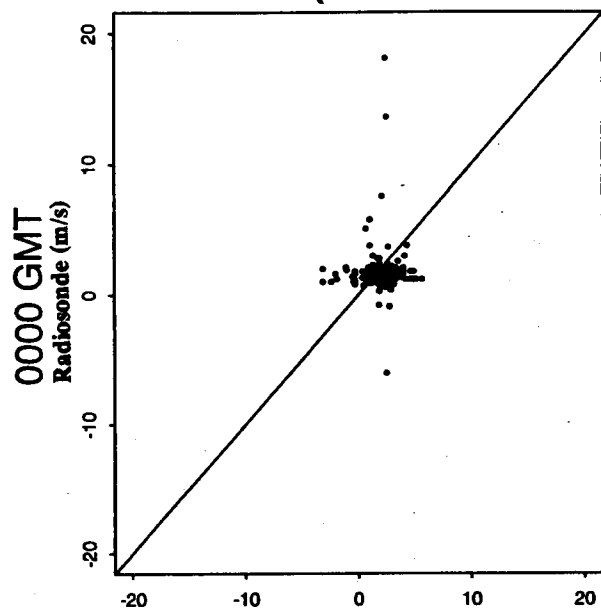


Radar Wind Profiler (m/s)

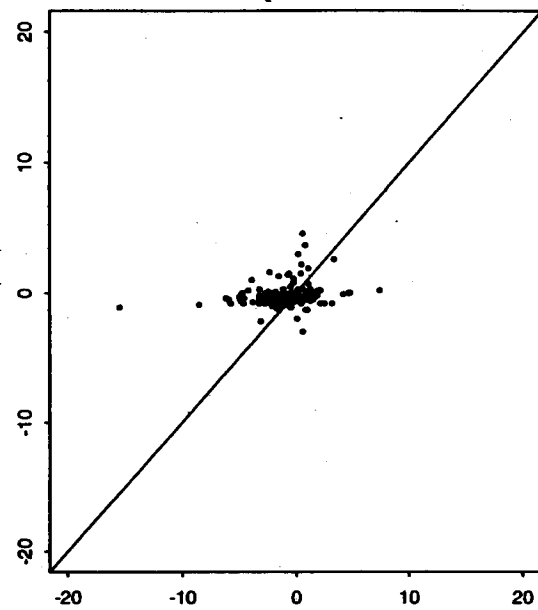


Radar Wind Profiler (m/s)

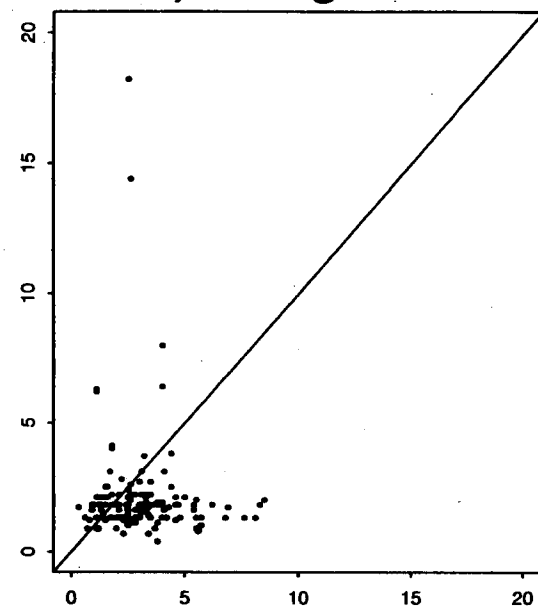
MYFR (Radiosonde) vs SDOR (Radar Wind Profiler), Height=100M



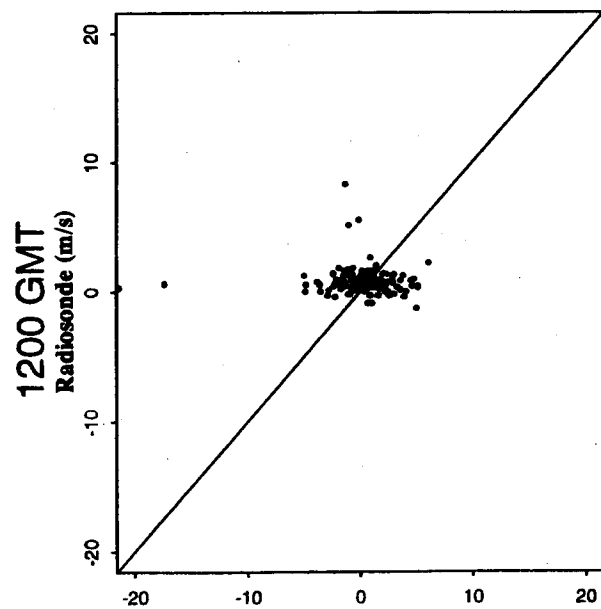
U-Component (m/s)



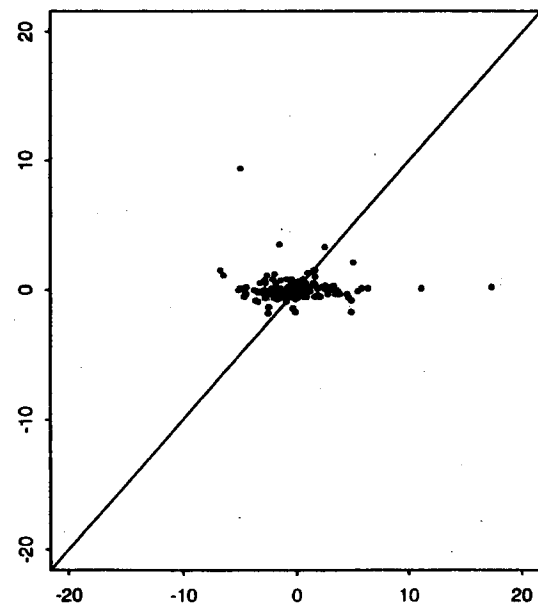
V-Component (m/s)



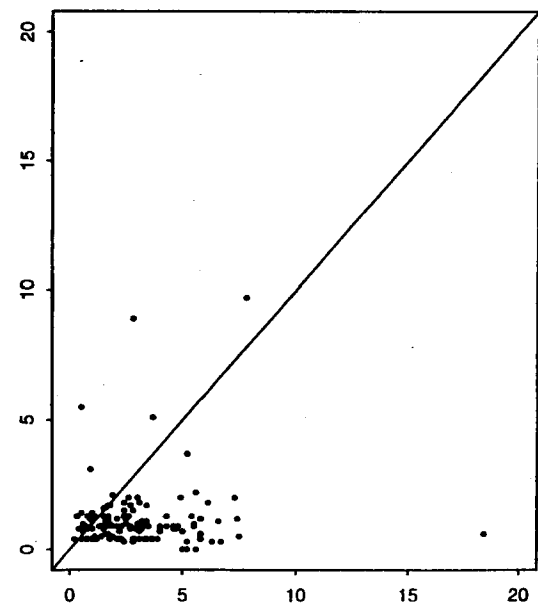
Wind Speed (m/s)



Radar Wind Profiler (m/s)

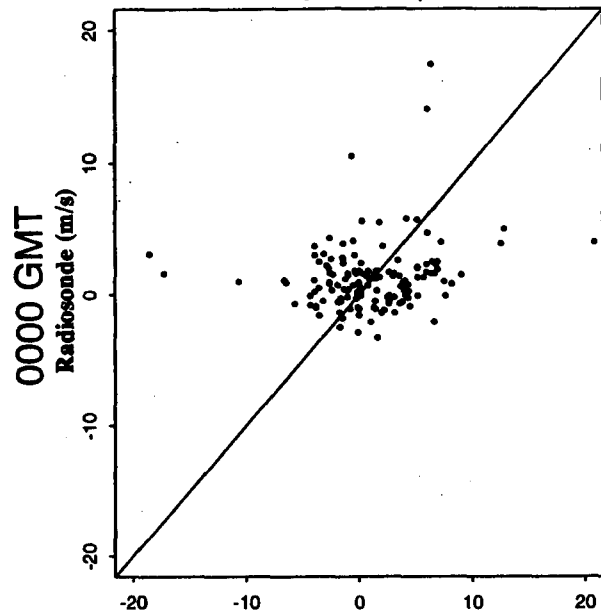


Radar Wind Profiler (m/s)

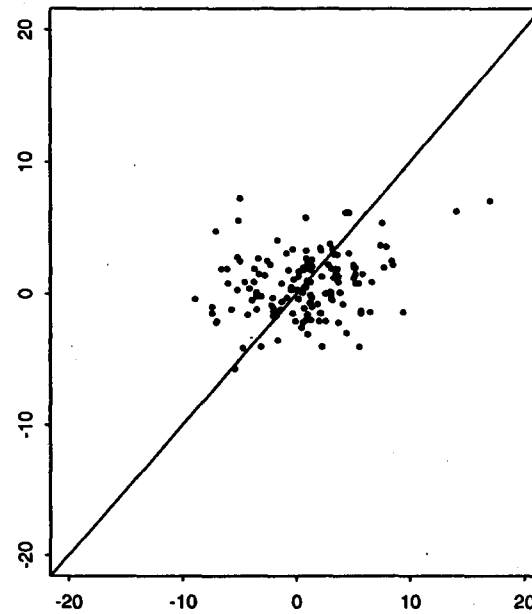


Radar Wind Profiler (m/s)

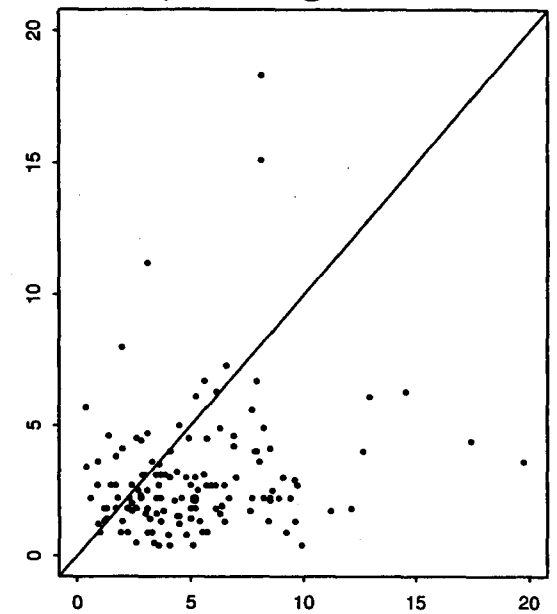
MYFR (Radiosonde) vs SDOR (Radar Wind Profiler), Height=2000M



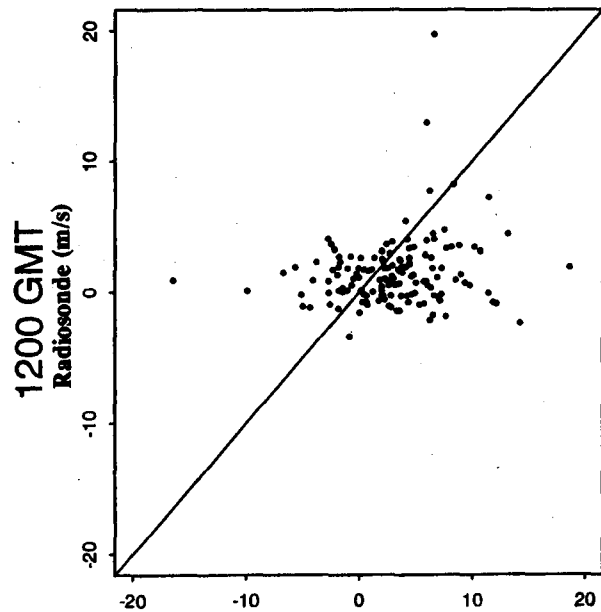
U-Component (m/s)



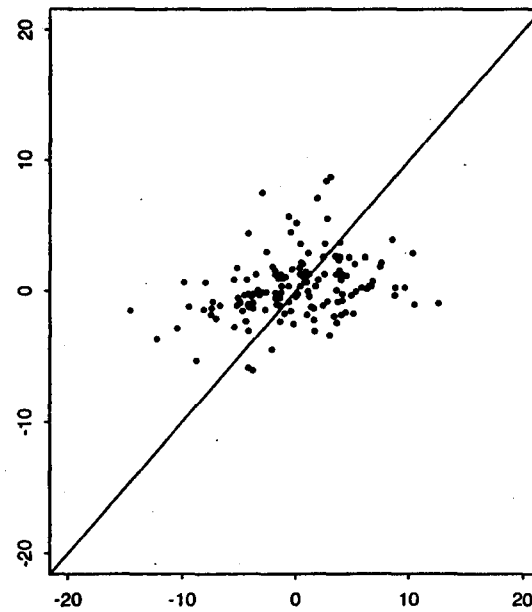
V-Component (m/s)



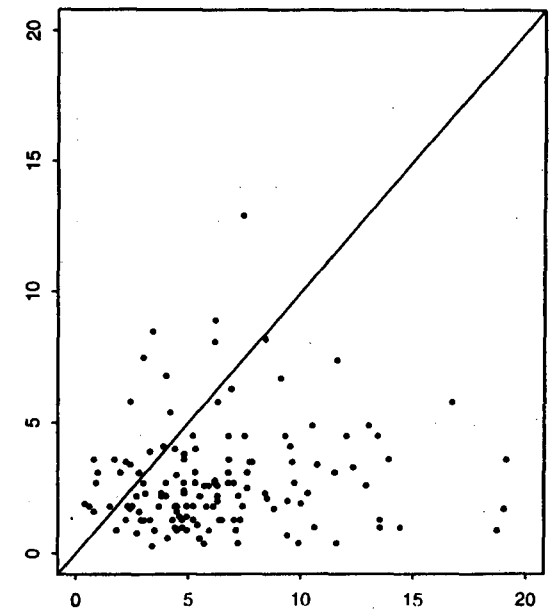
Wind Speed (m/s)



Radar Wind Profiler (m/s)

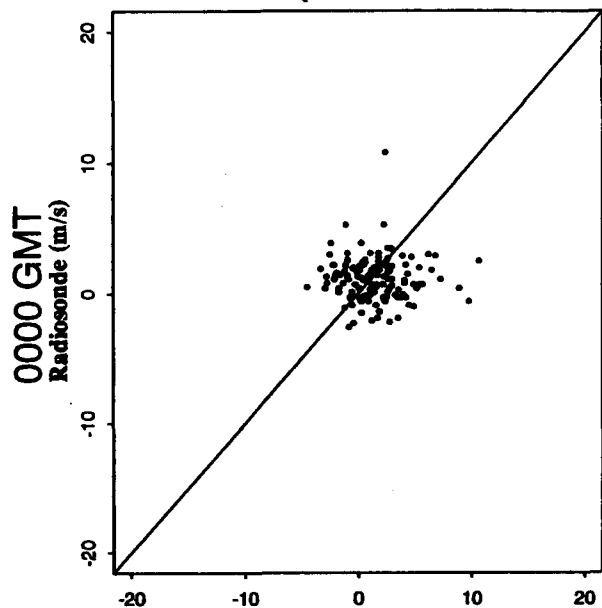


Radar Wind Profiler (m/s)

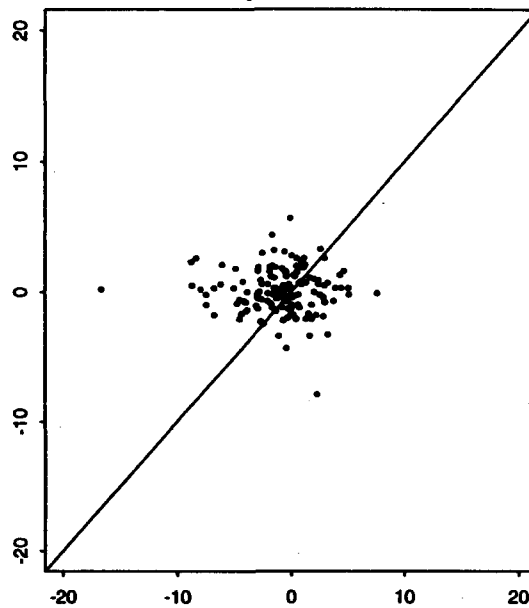


Radar Wind Profiler (m/s)

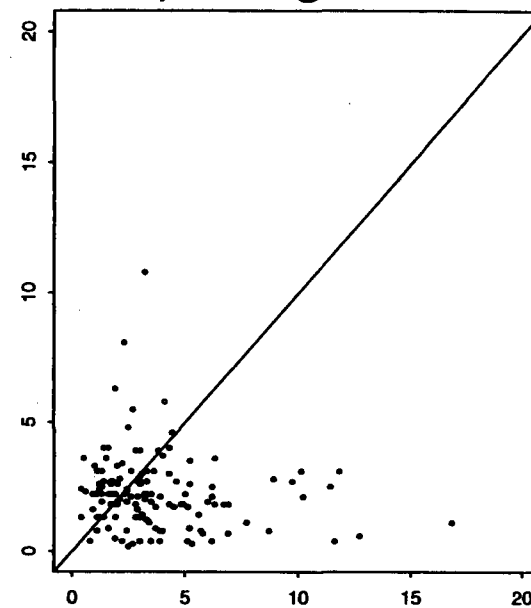
MYFR (Radiosonde) vs SDOR (Radar Wind Profiler), Height=1000M



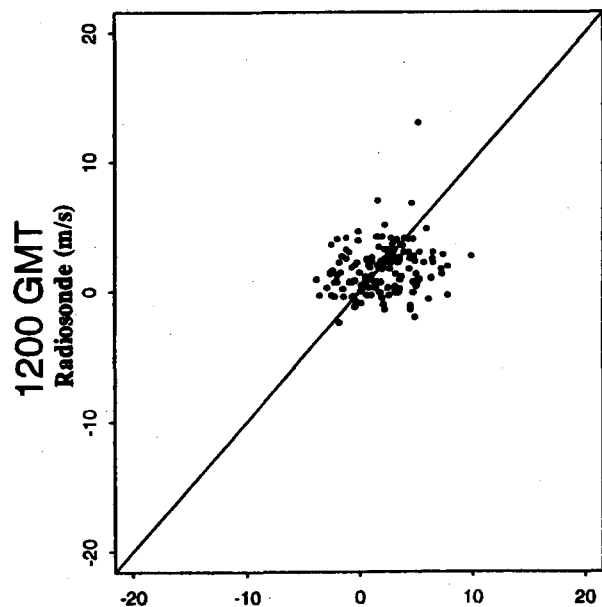
U-Component (m/s)



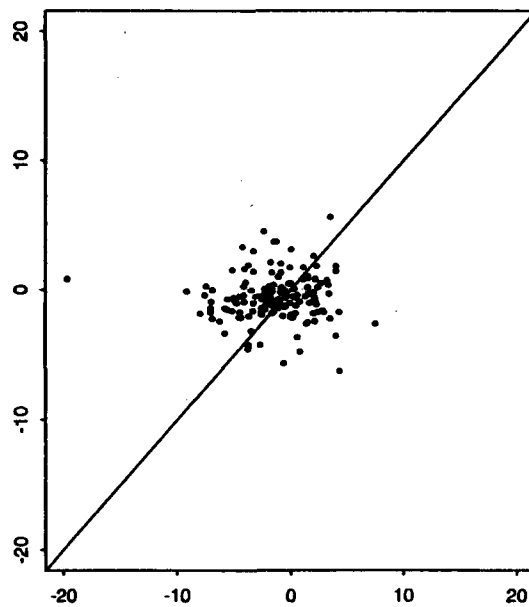
V-Component (m/s)



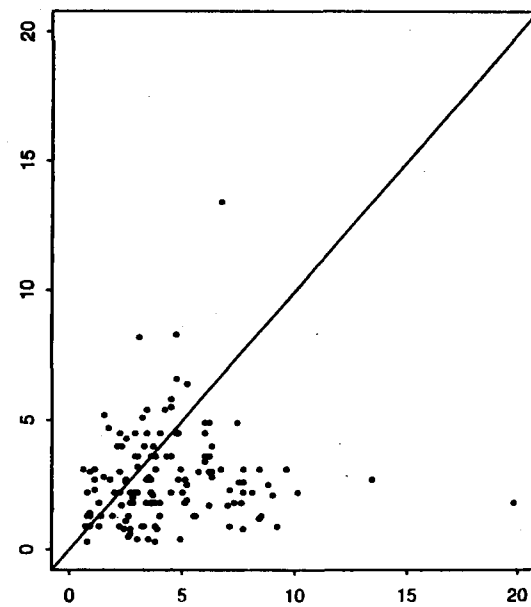
Wind Speed (m/s)



Radar Wind Profiler (m/s)



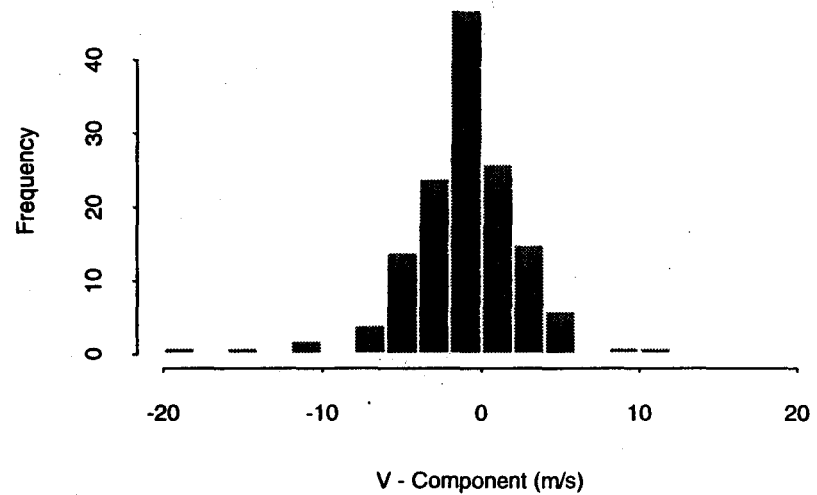
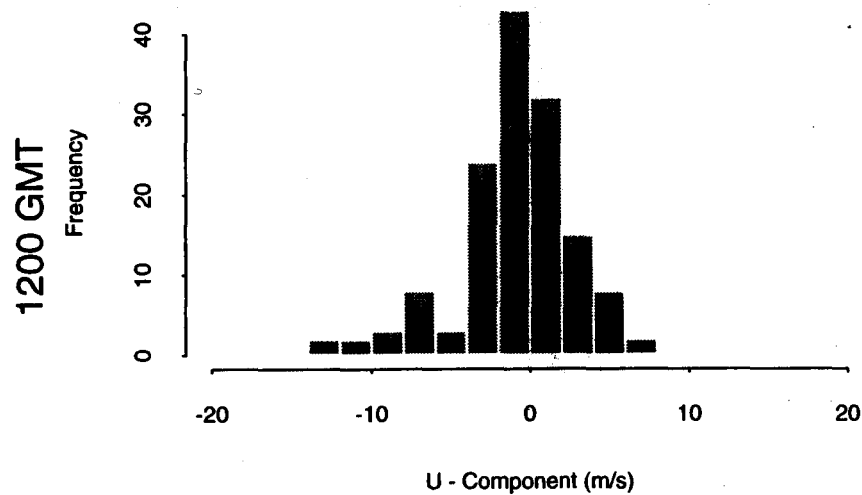
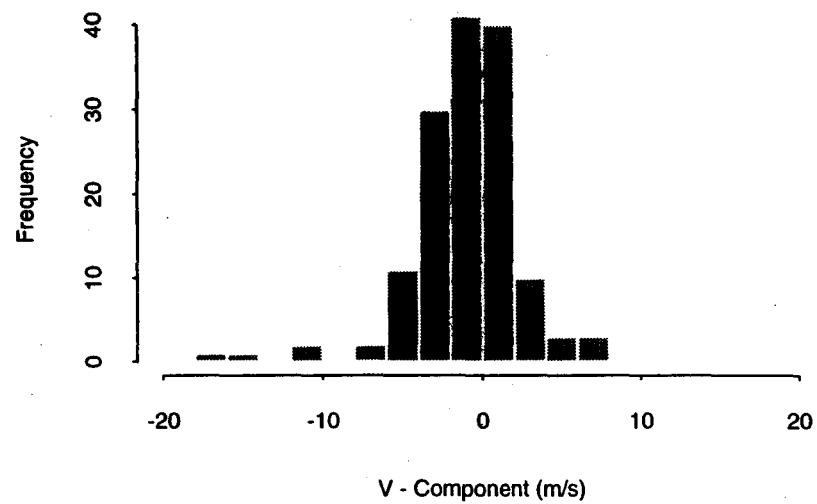
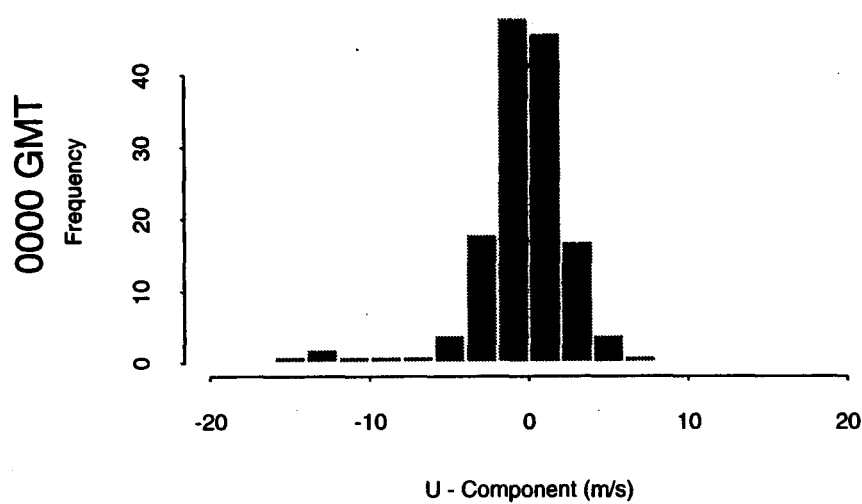
Radar Wind Profiler (m/s)



Radar Wind Profiler (m/s)

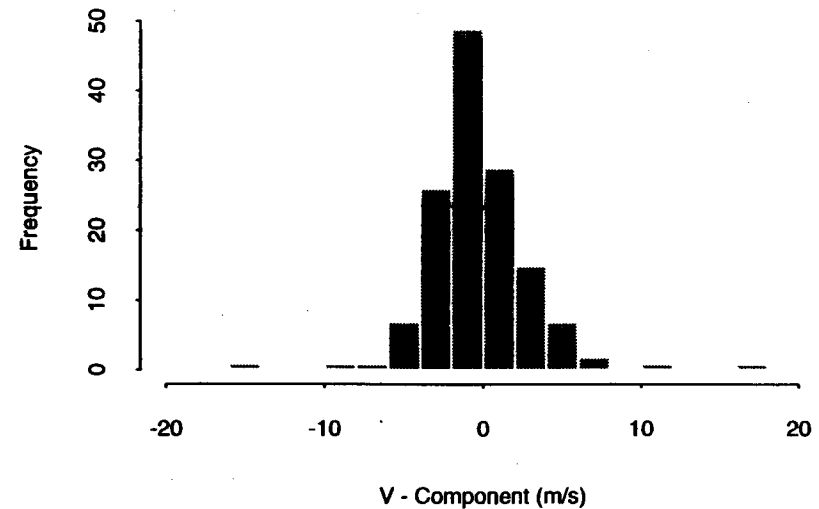
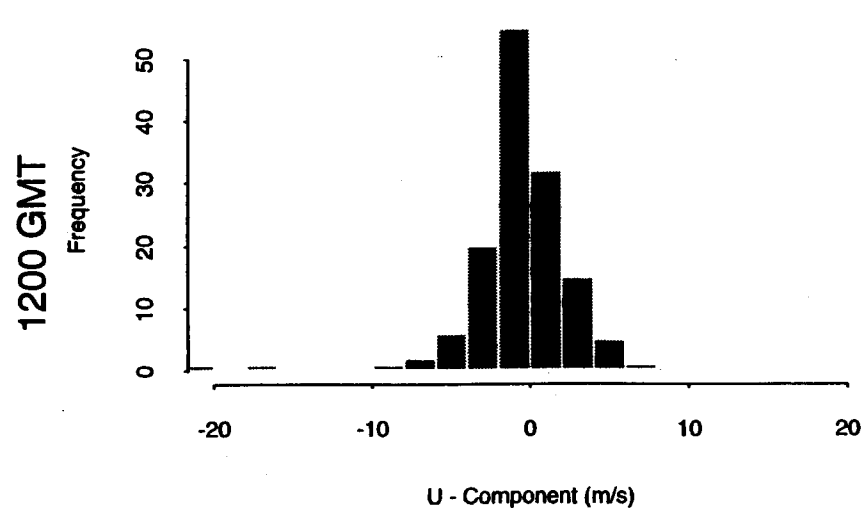
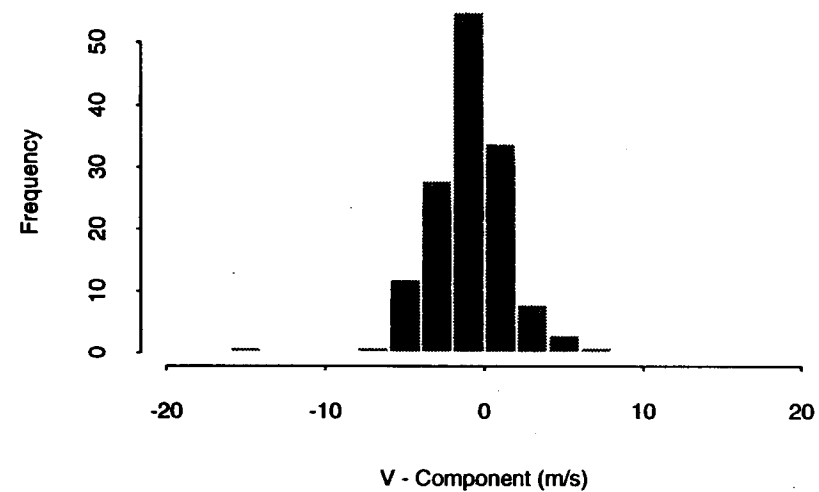
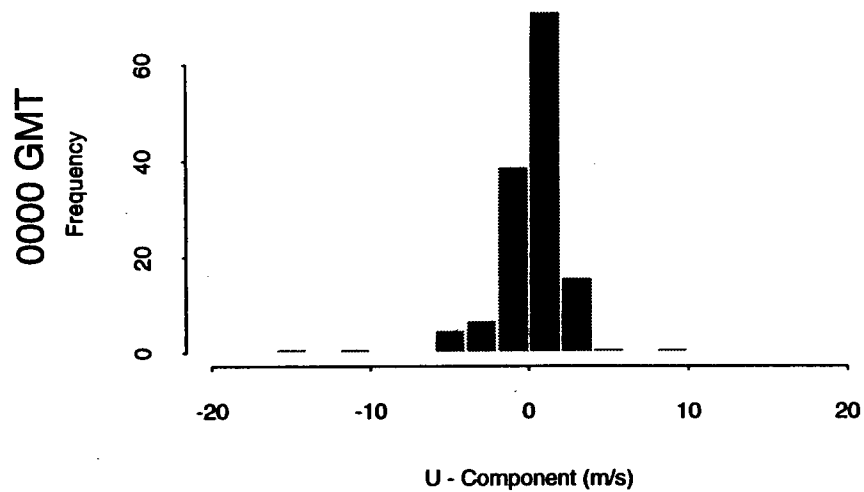
Frequency Distribution of Differences

SDOR (Radar Wind Profiler) - MYFR (Radiosonde), 300M



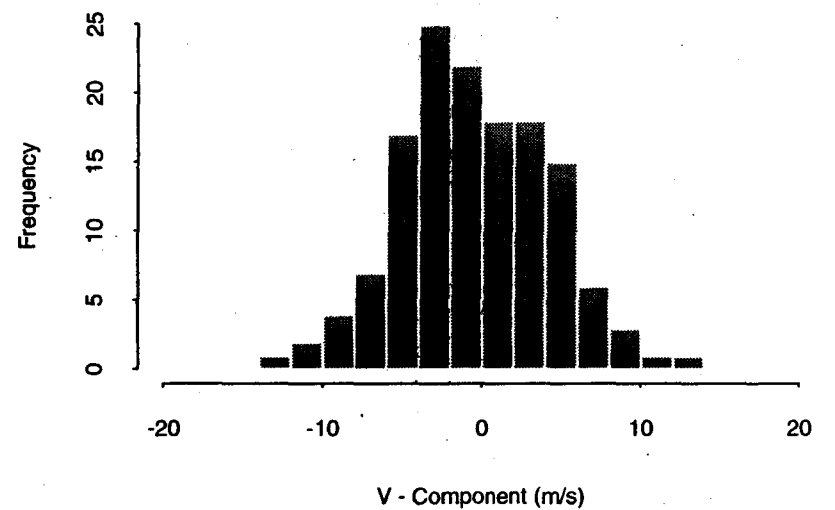
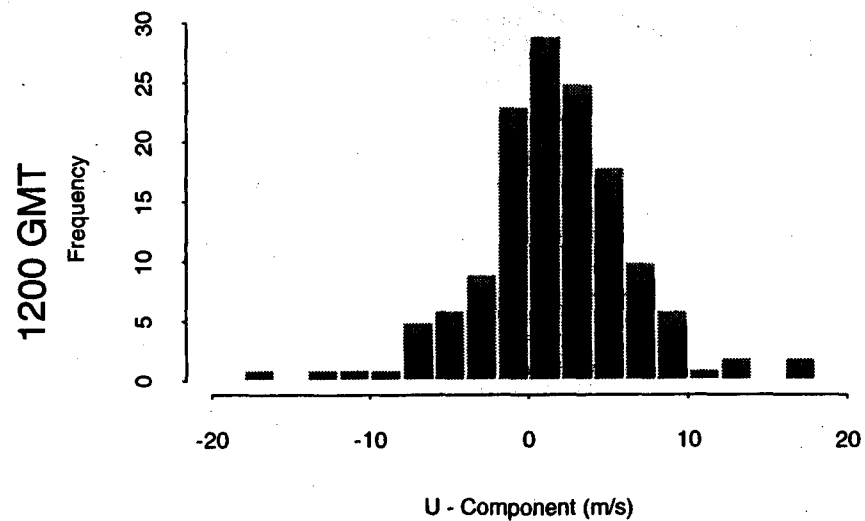
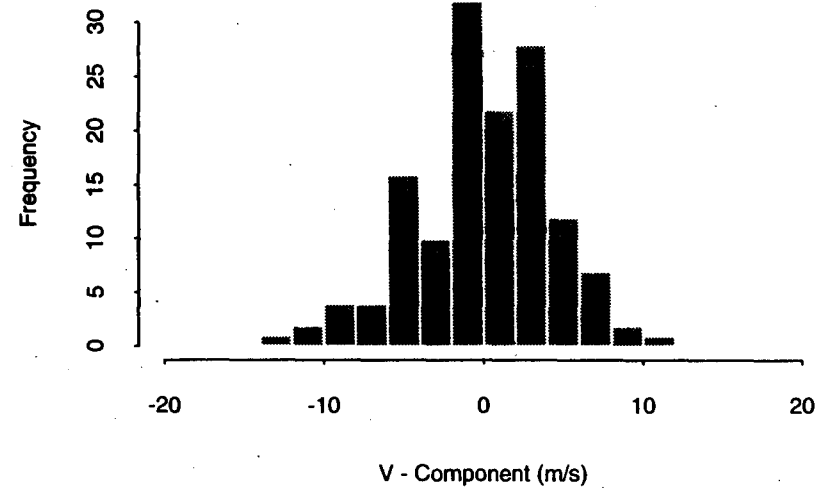
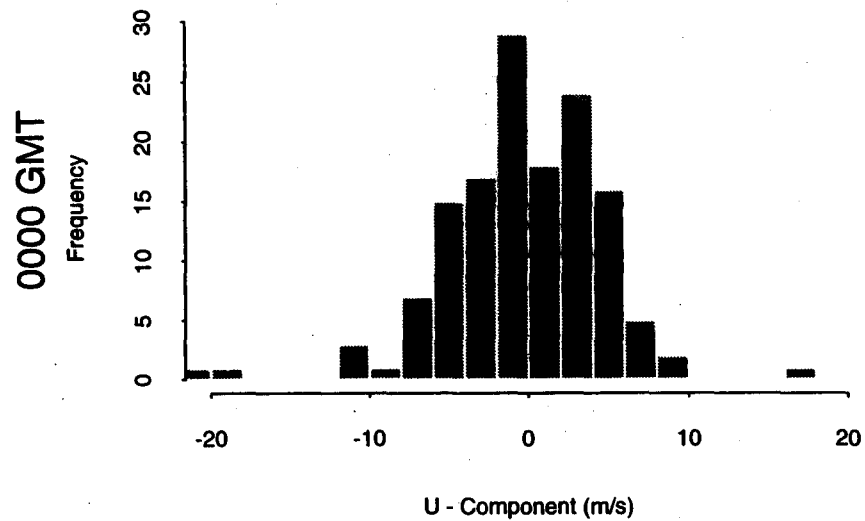
Frequency Distribution of Differences

SDOR (Radar Wind Profiler) - MYFR (Radiosonde), 100M



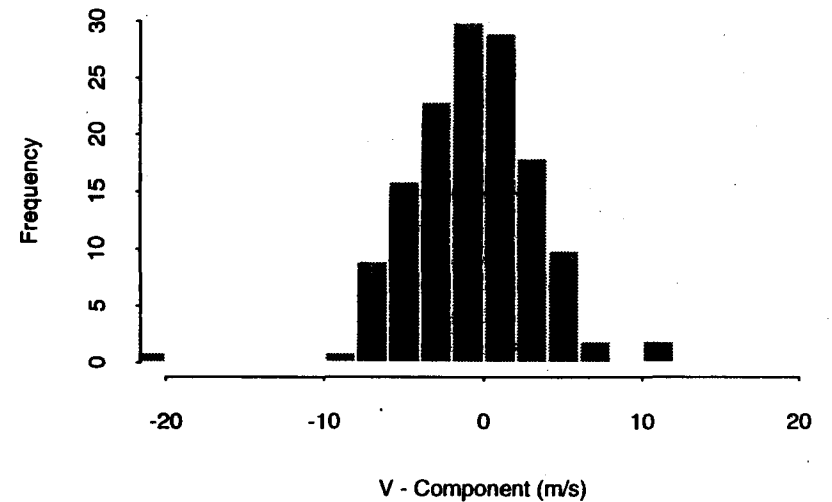
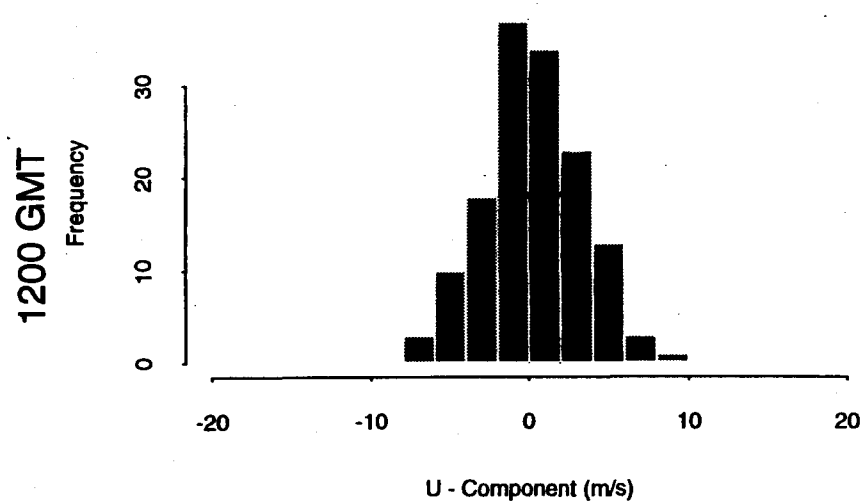
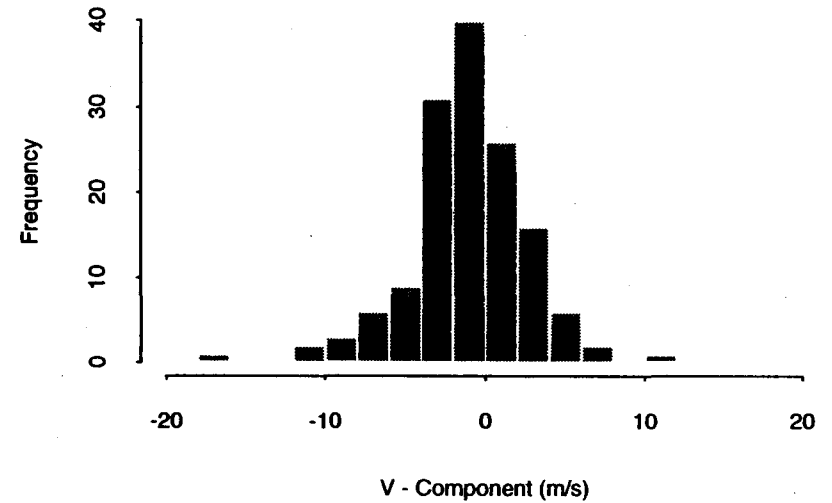
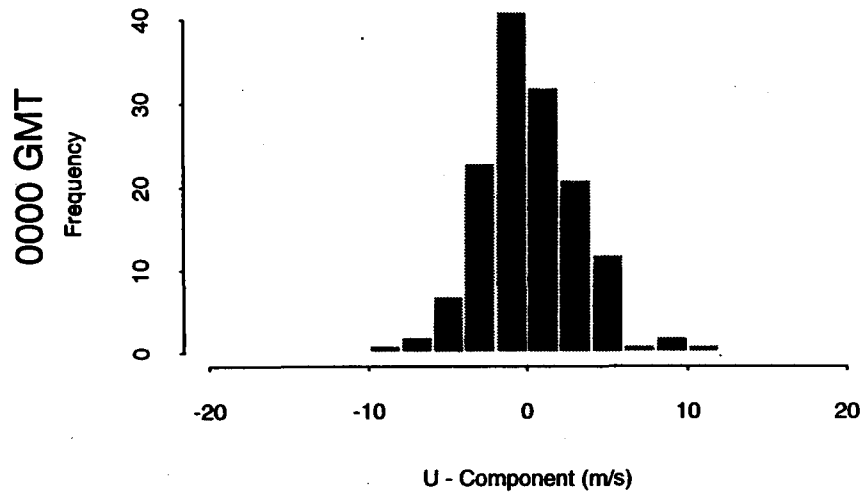
Frequency Distribution of Differences

SDOR (Radar Wind Profiler) - MYFR (Radiosonde), 2000M



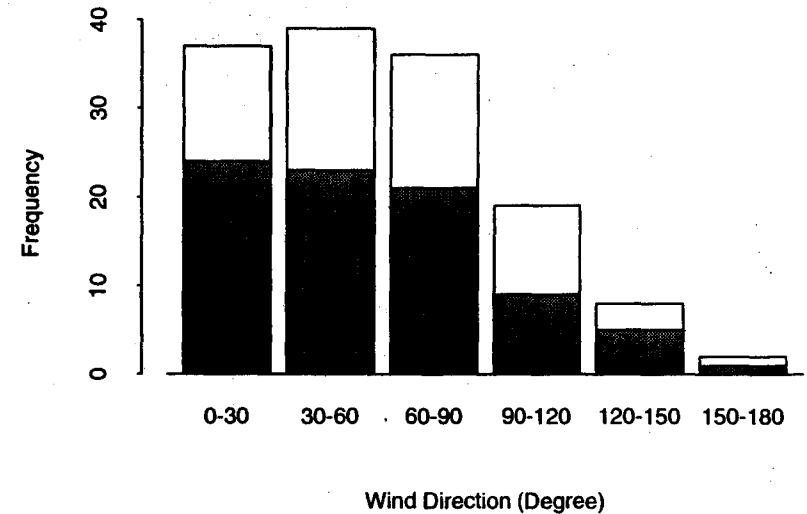
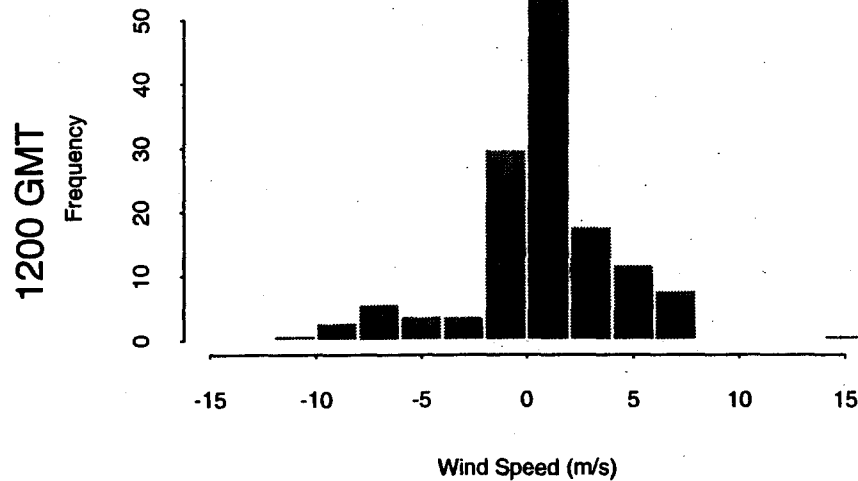
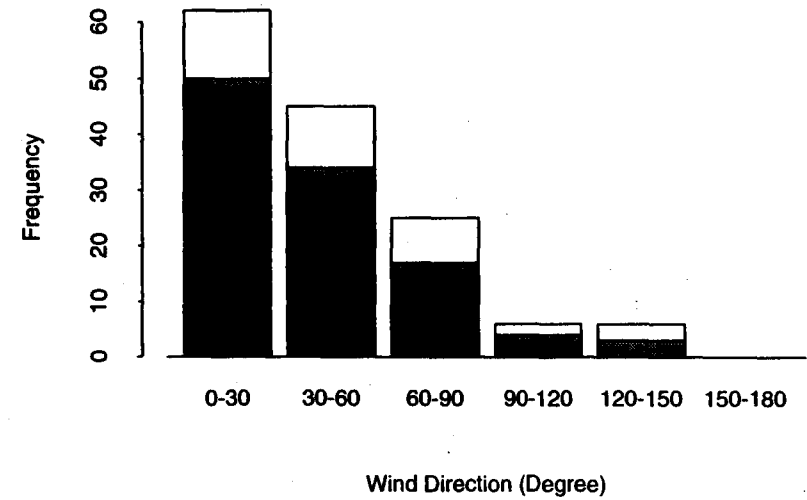
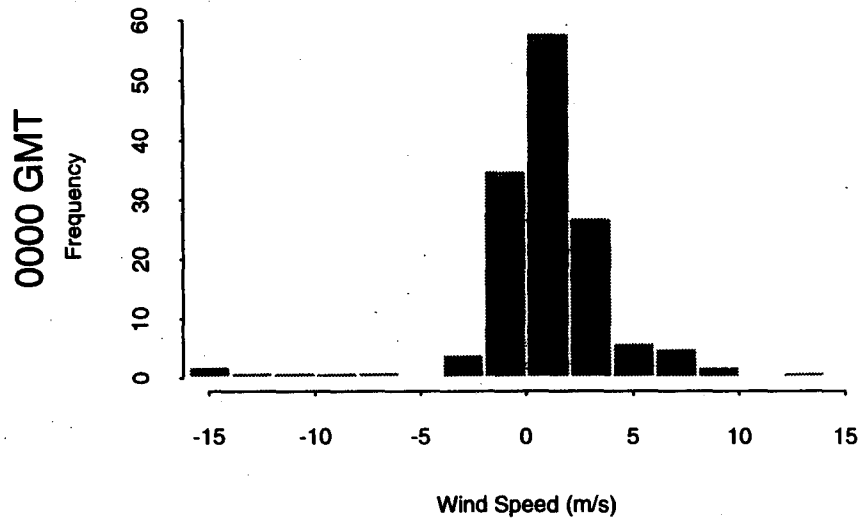
Frequency Distribution of Differences

SDOR (Radar Wind Profiler) - MYFR (Radiosonde), 1000M



Frequency Distribution of Differences

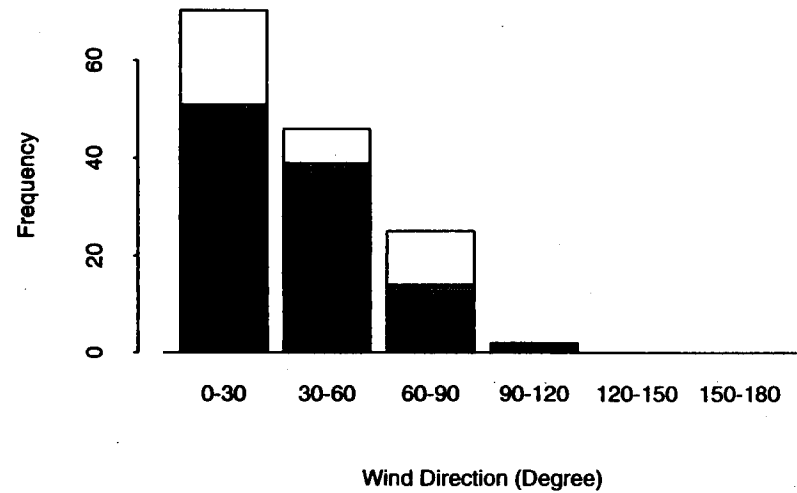
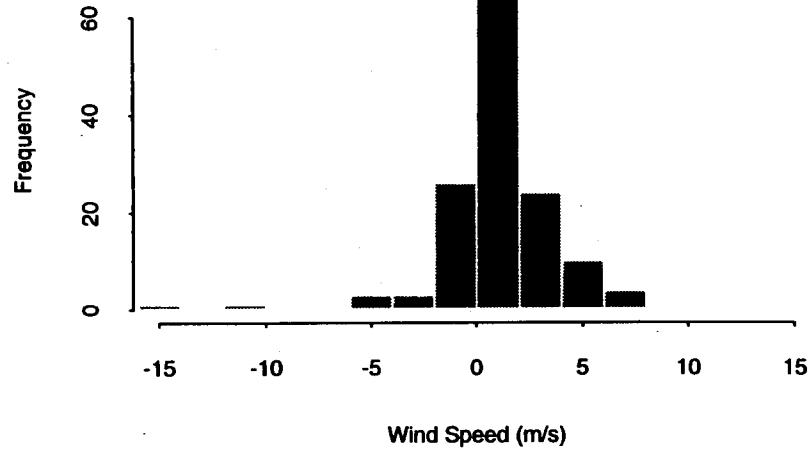
SDOR (Radar Wind Profiler) - MYFR (Radiosonde), 300M



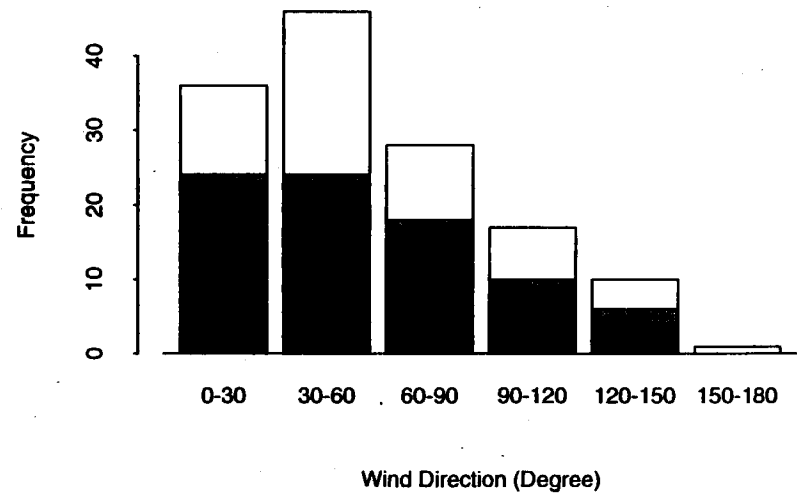
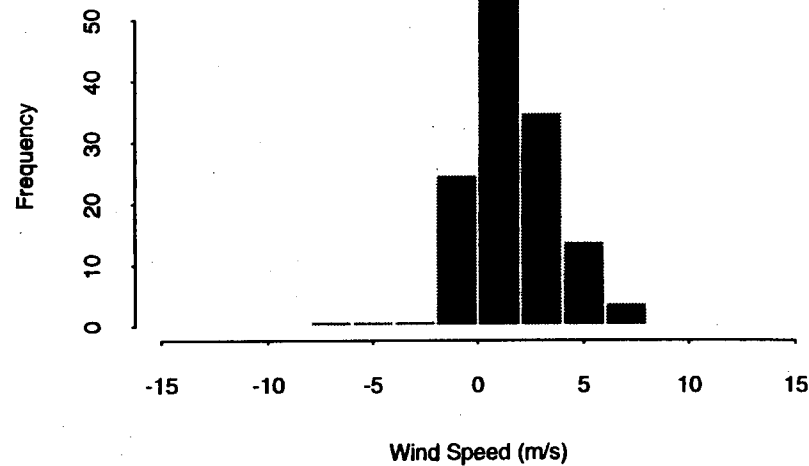
Frequency Distribution of Differences

SDOR (Radar Wind Profiler) - MYFR (Radiosonde), 100M

0000 GMT

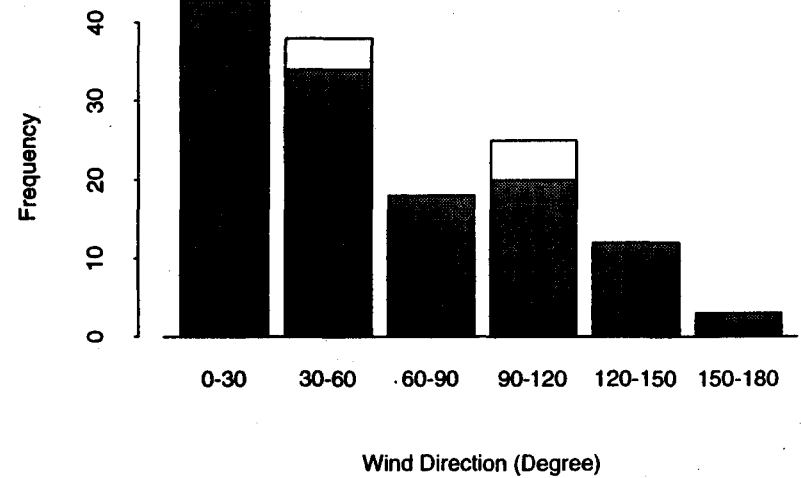
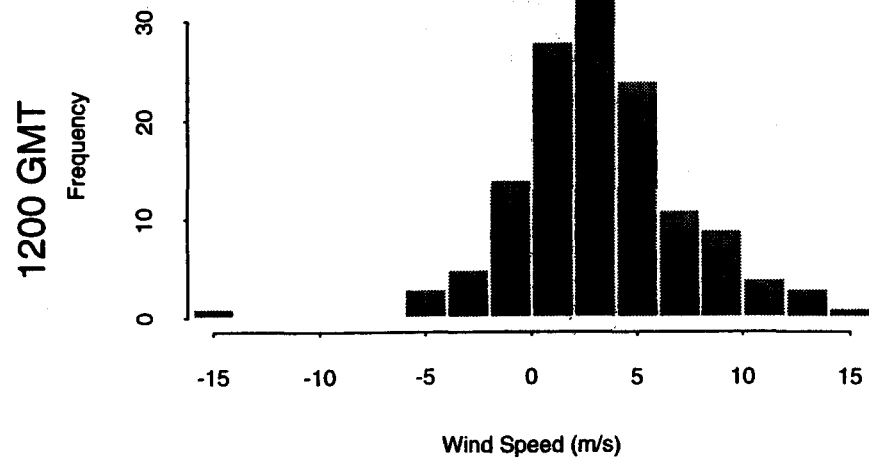
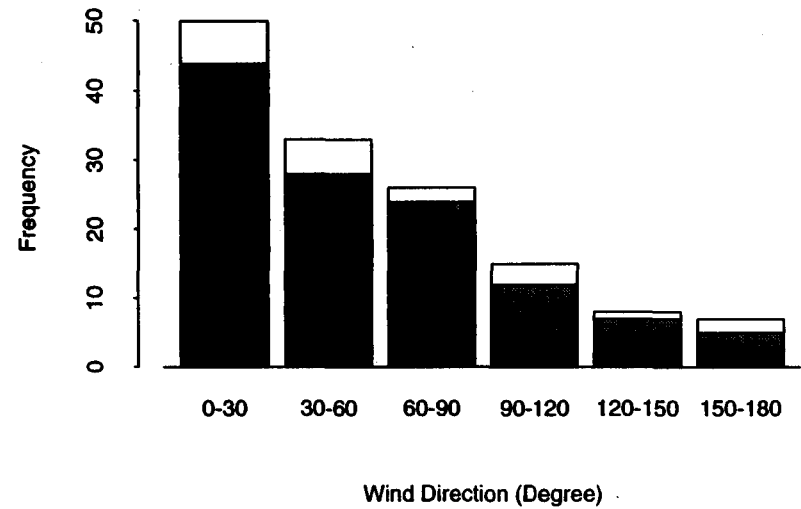
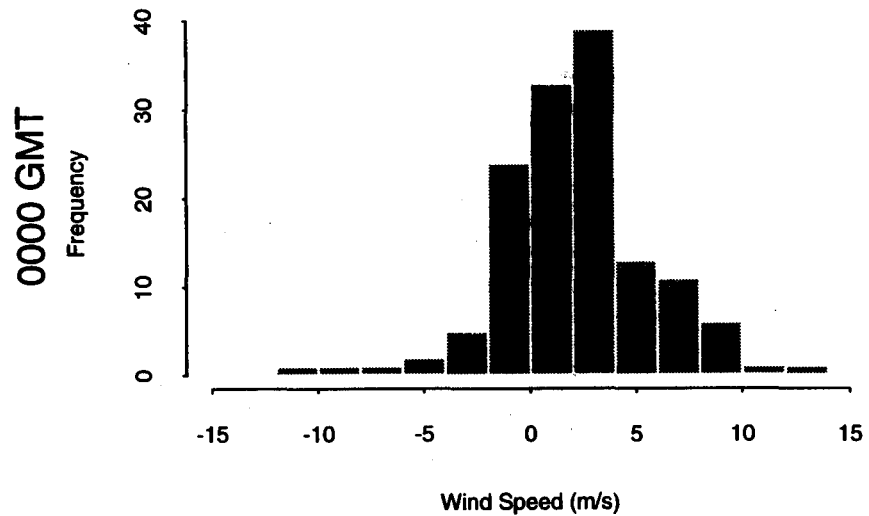


1200 GMT



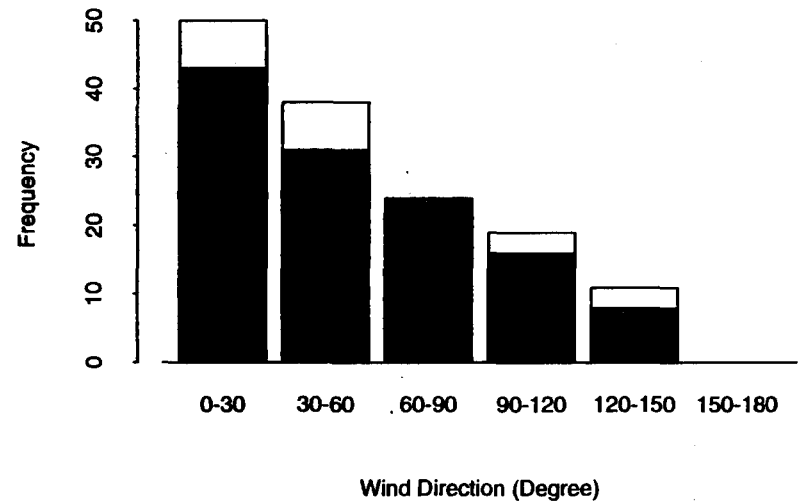
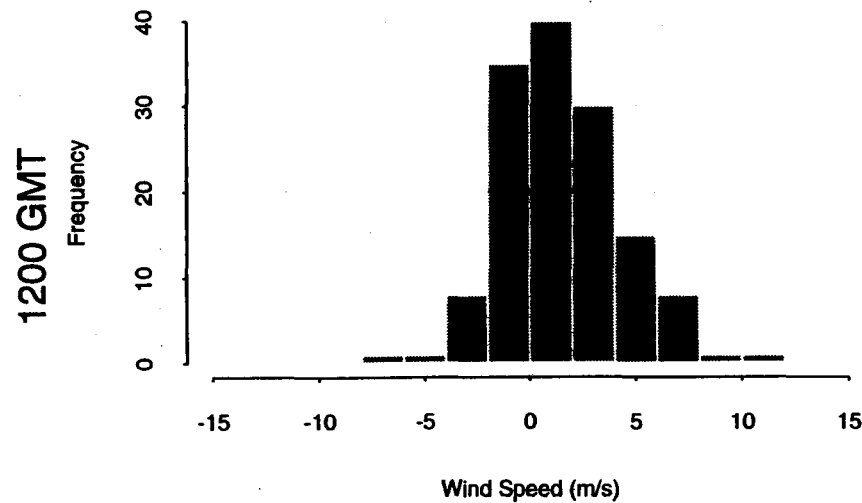
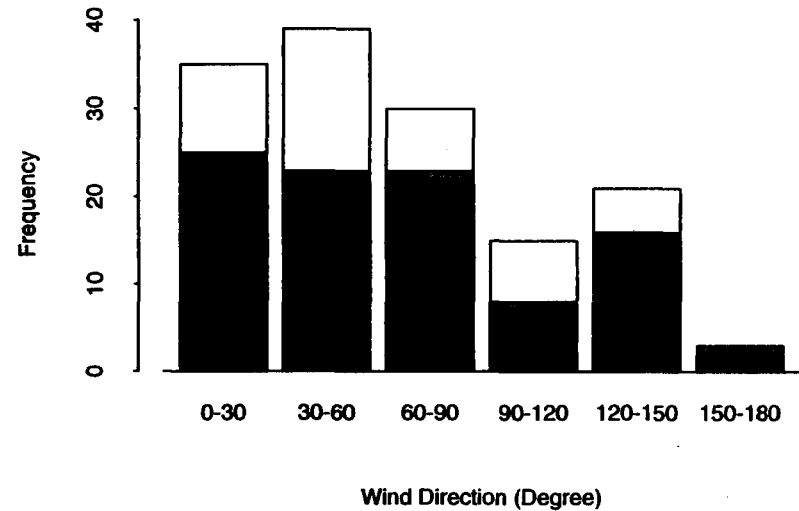
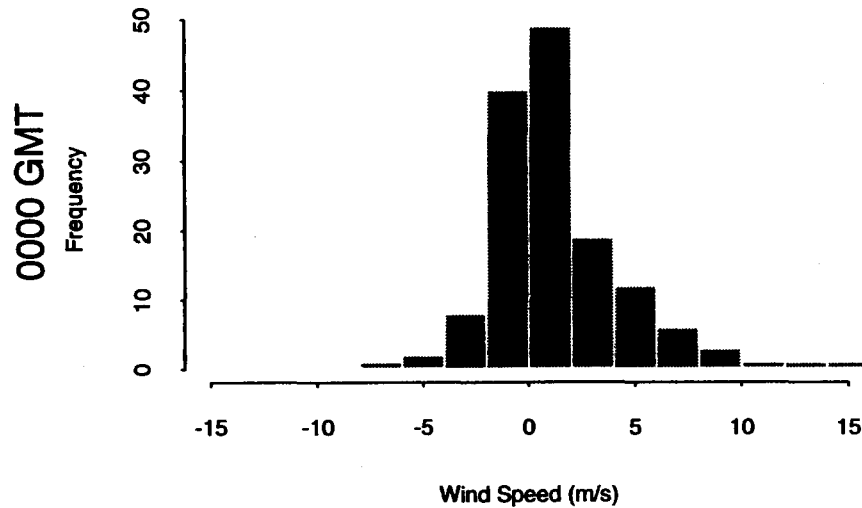
Frequency Distribution of Differences

SDOR (Radar Wind Profiler) - MYFR (Radiosonde), 2000M



Frequency Distribution of Differences

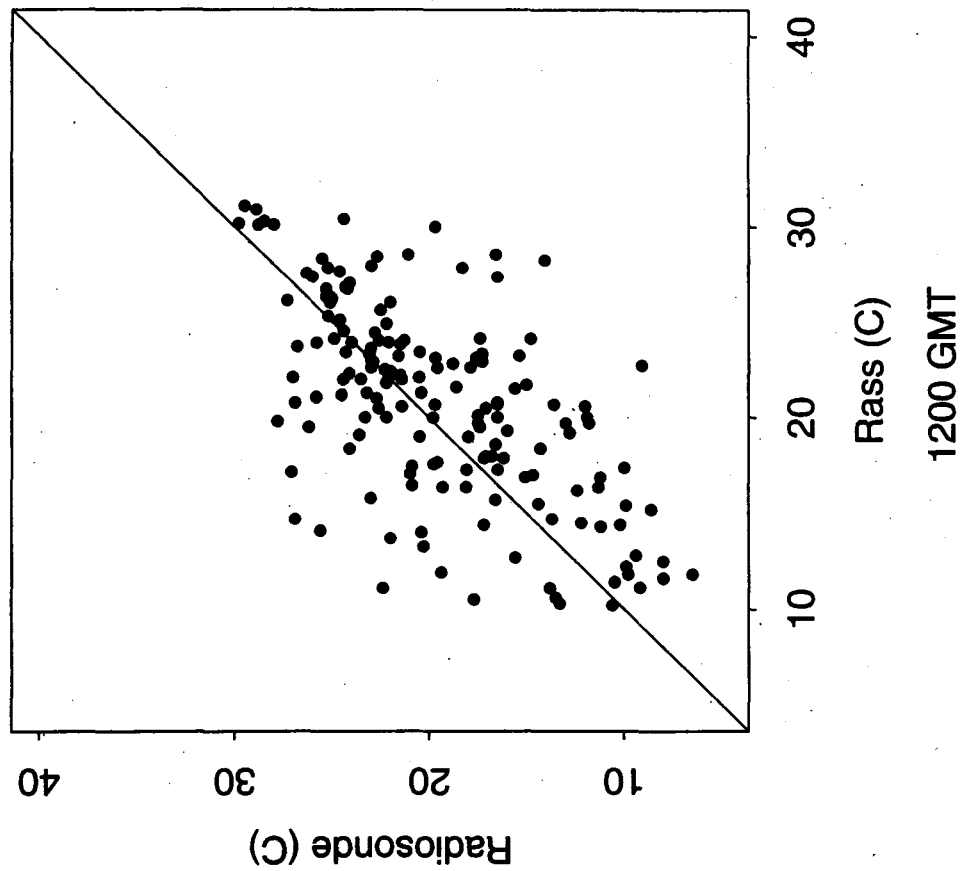
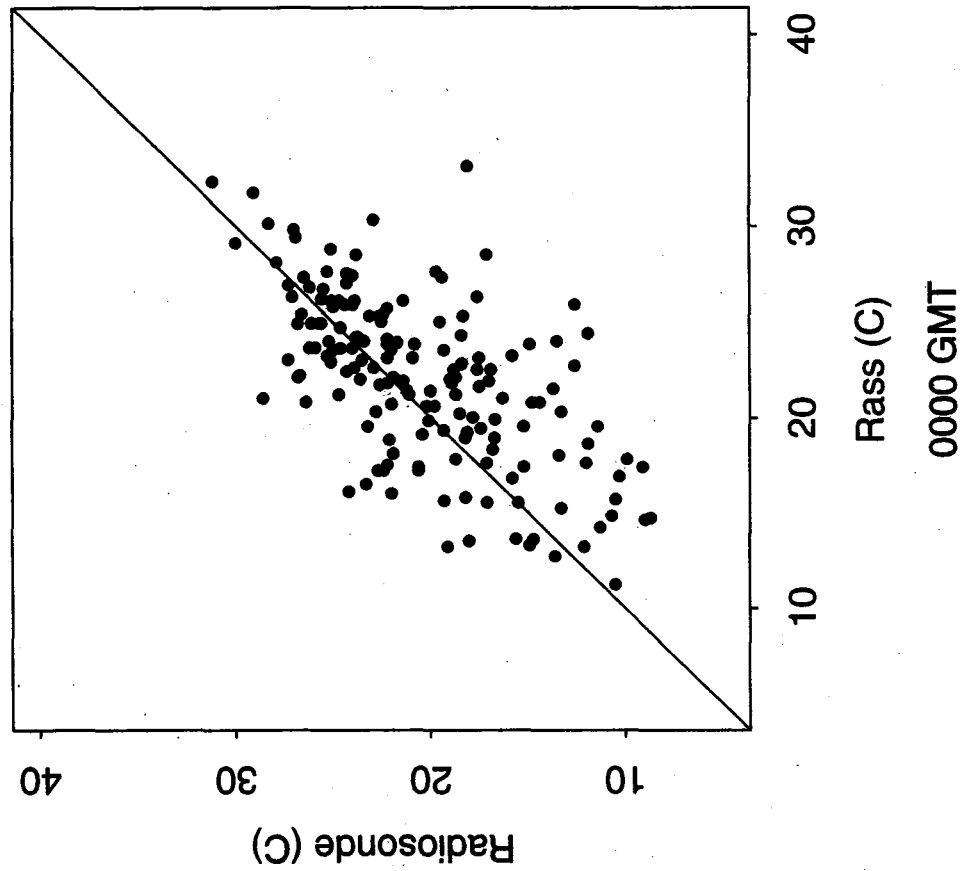
SDOR (Radar Wind Profiler) - MYFR (Radiosonde), 1000M



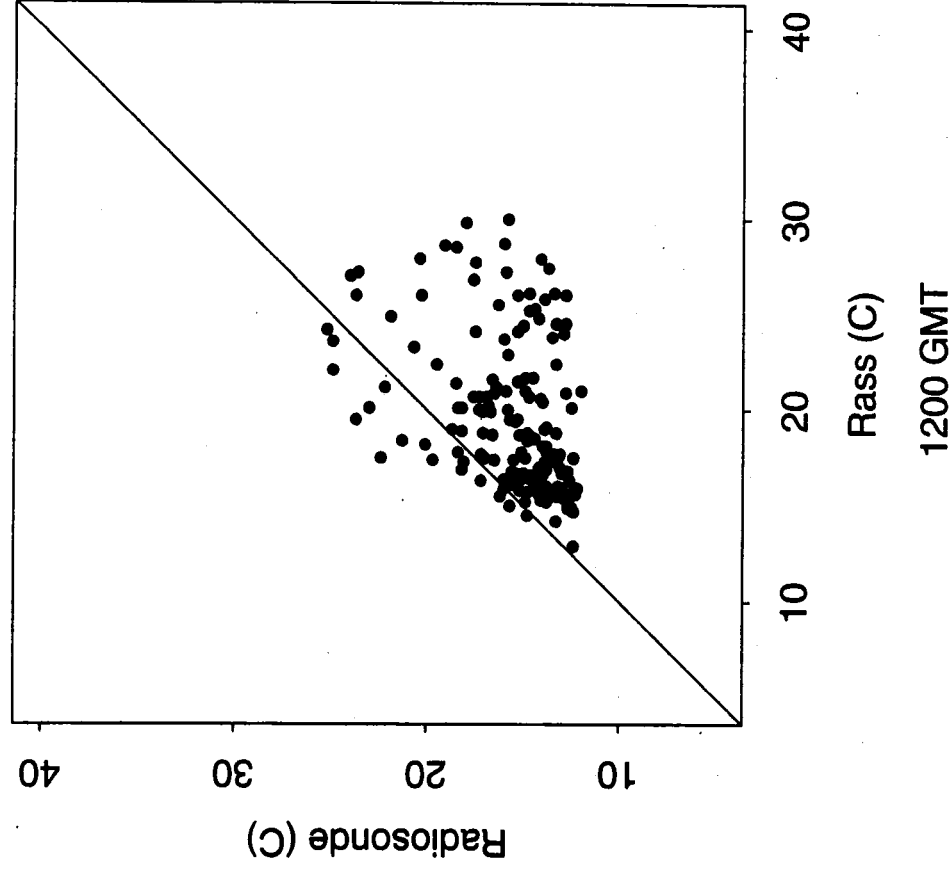
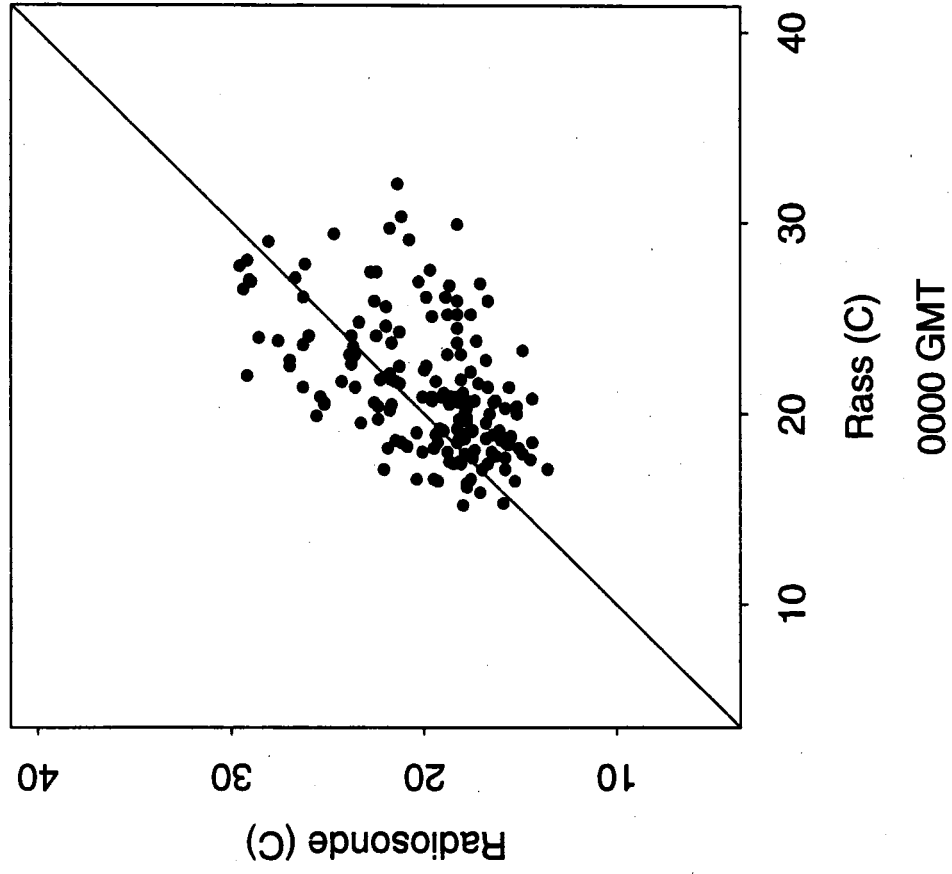
Appendix B4

**SCATTER PLOTS OF VIRTUAL TEMPERATURE FOR RASS AND
RADIOSONDE SITE PAIRS AND HISTOGRAMS OF THE DIFFERENCES FOR
MONITORING SITES LOCATED IN THE SAN DIEGO AIR BASIN (SDAB)**

MYFR (Radiosonde) vs SDO (RASS), Height=1000M



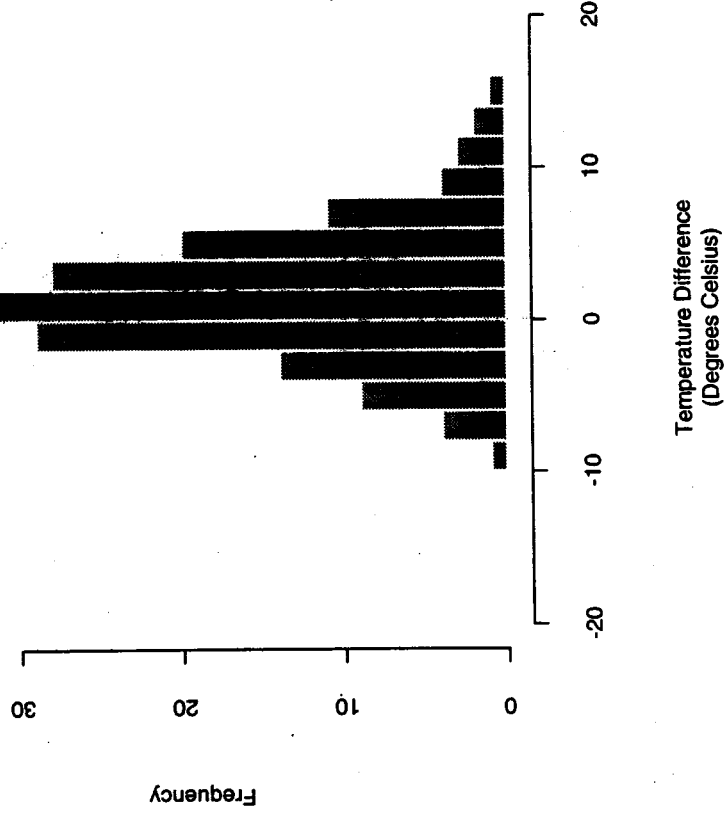
MYFR (Radiosonde) vs SDO (RASS), Height=300 M



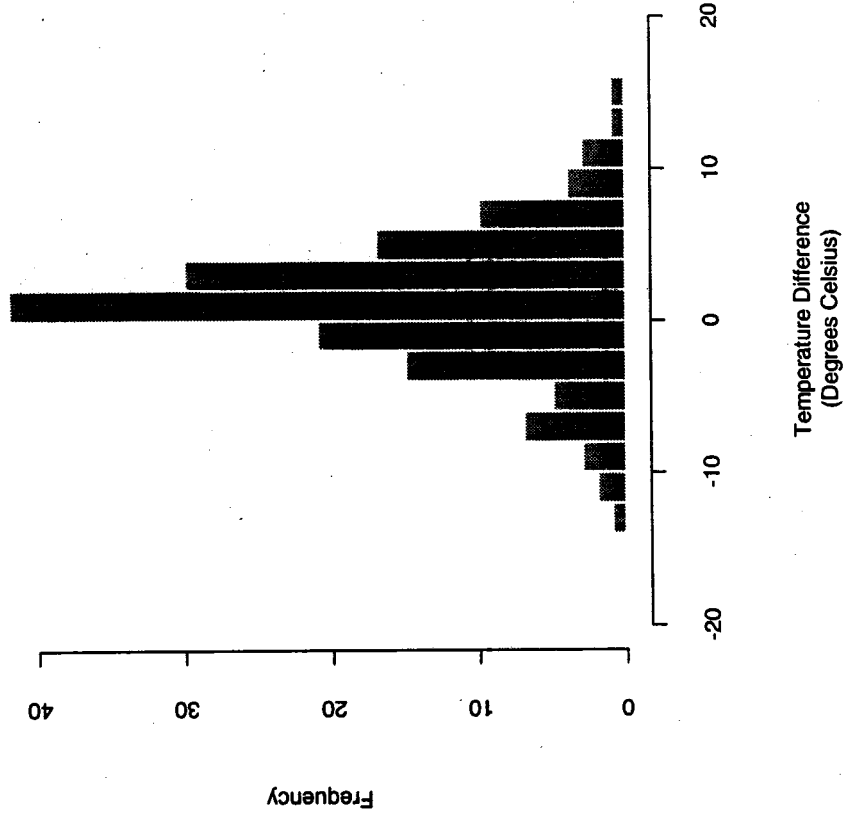
Frequency Distribution of Differences

SDO(Radar Wind Profiler) - MFYR(Radiosonde), 1000M

0000 GMT



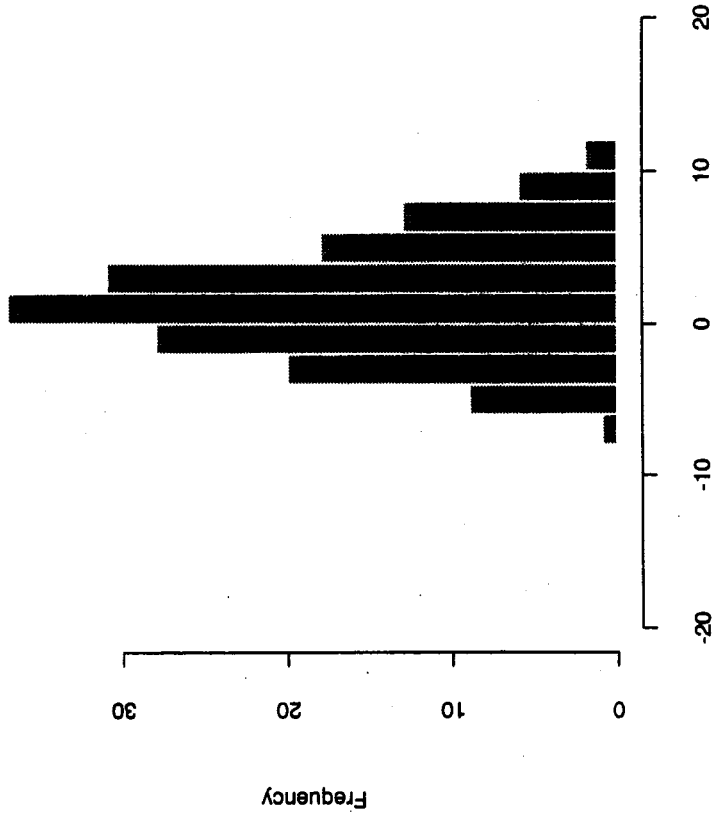
1200 GMT



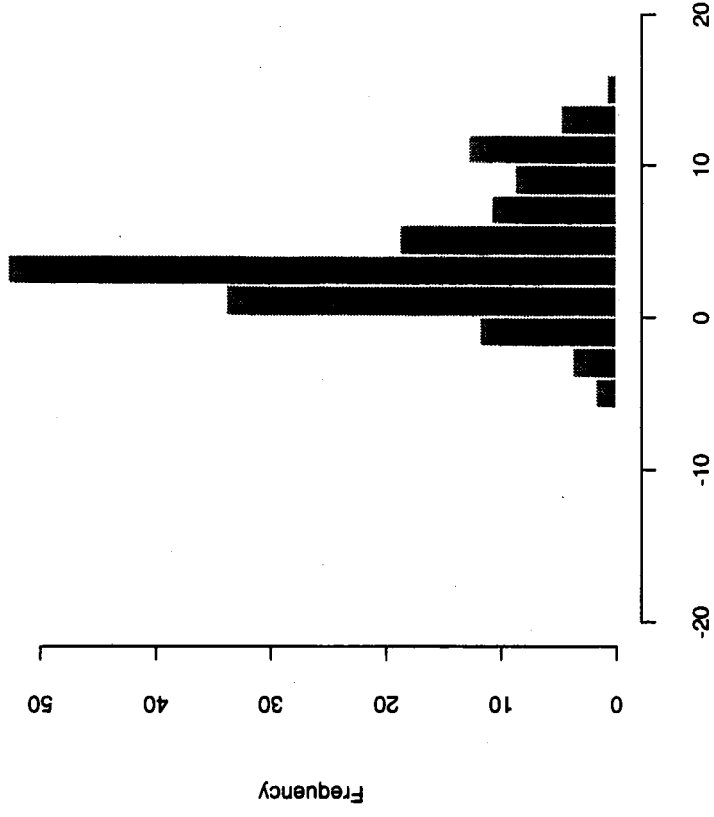
Frequency Distribution of Differences

SDO(Radar Wind Profiler) - MFYR(Radiosonde), 300M

0000 GMT



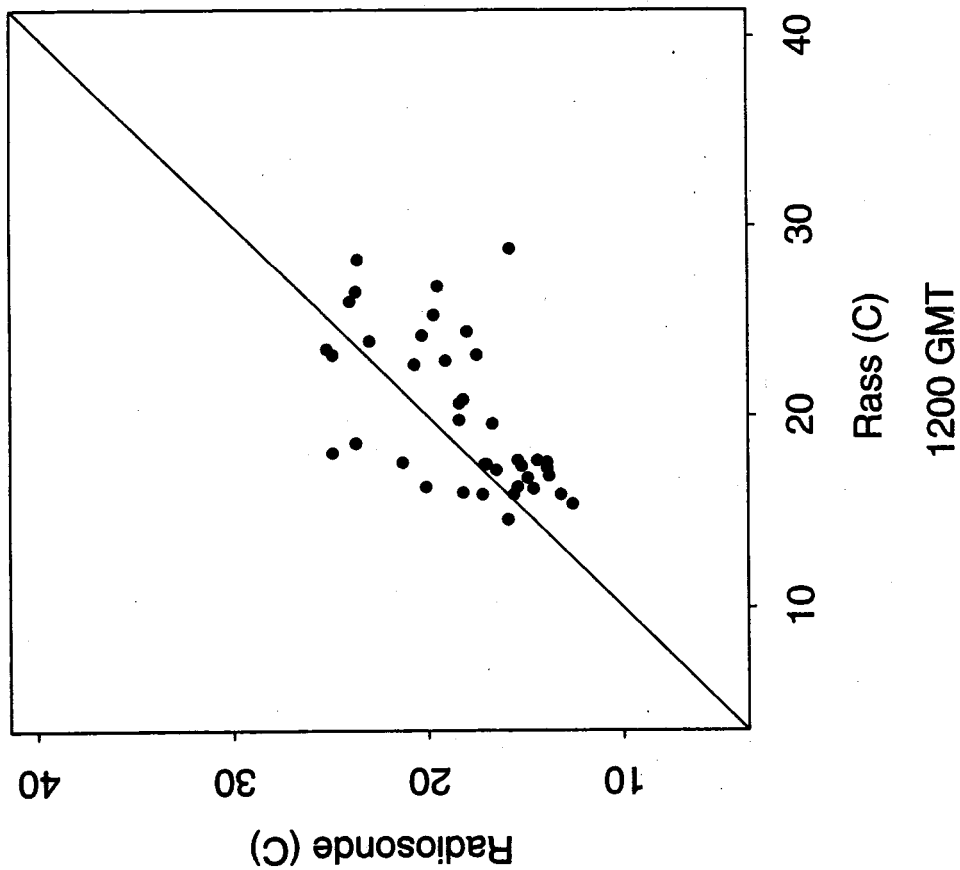
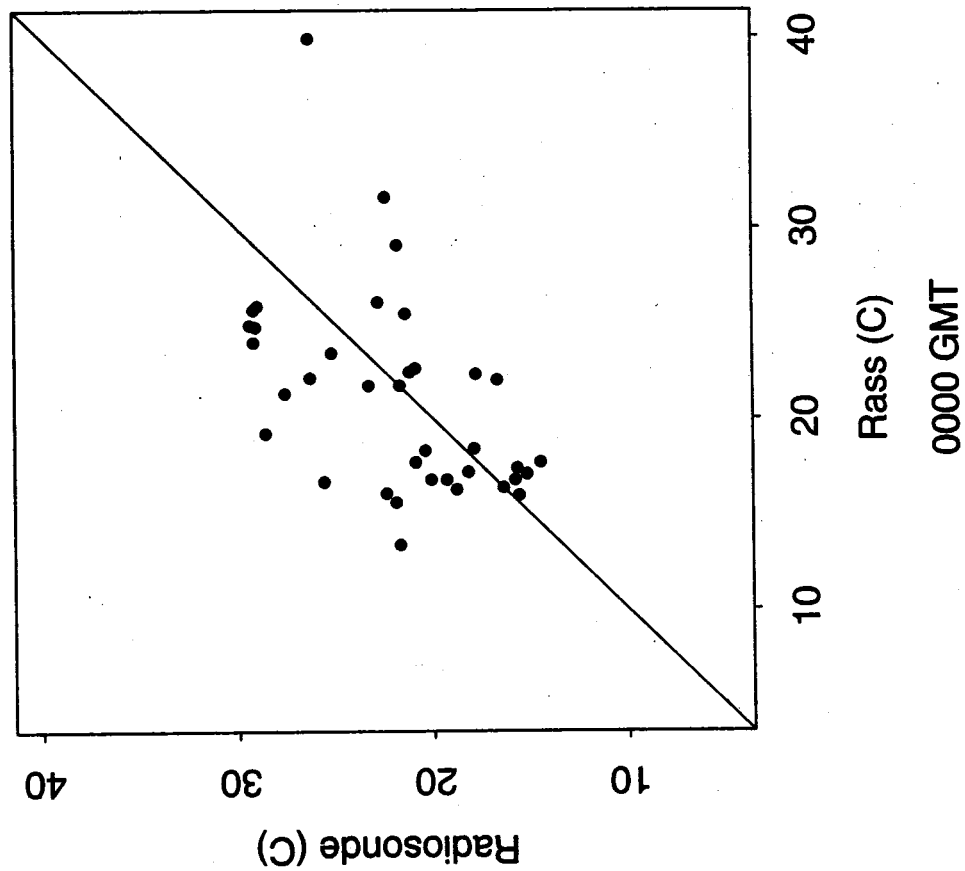
1200 GMT



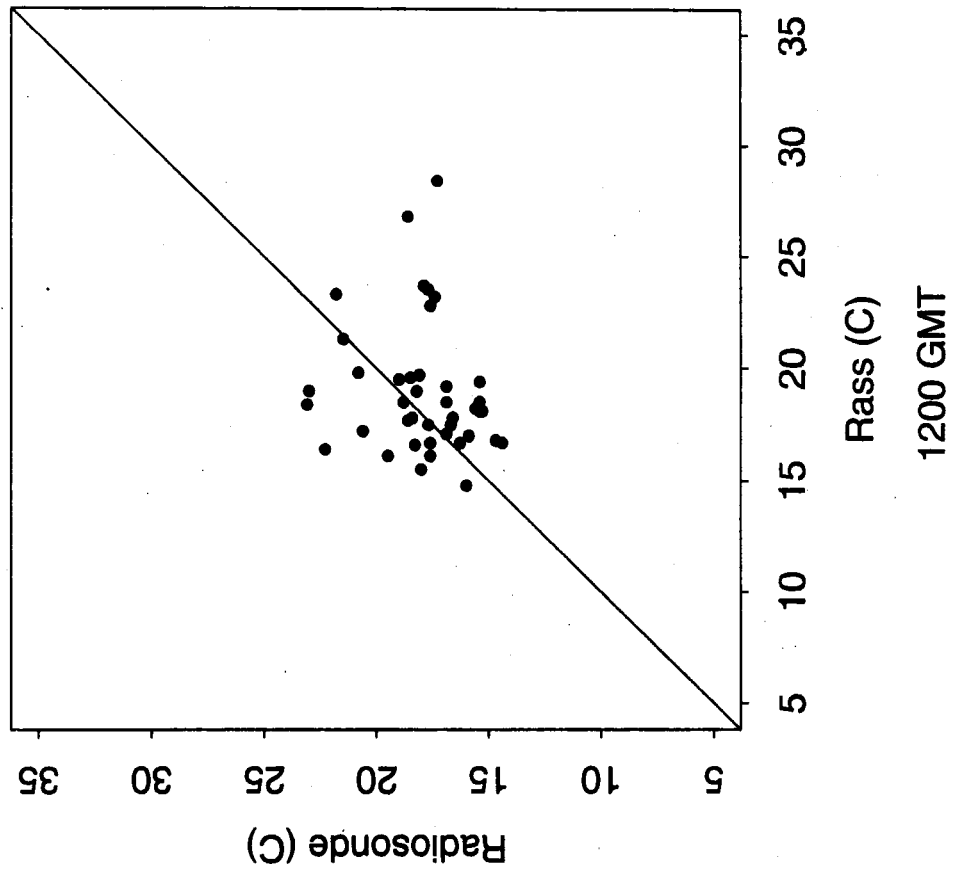
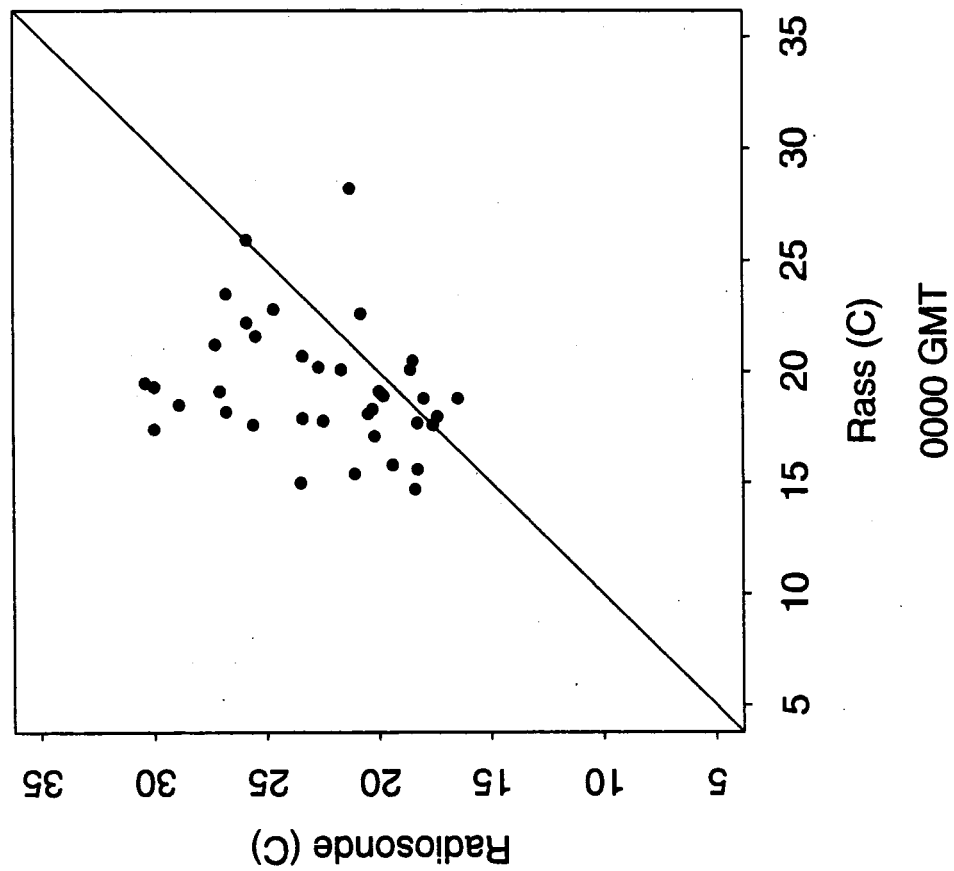
Temperature Difference
(Degrees Celsius)

Temperature Difference
(Degrees Celsius)

MYFR (Radiosonde) vs SCI (RASS), Height=300 M



MYFR (Radiosonde) vs SCI (RASS), Height=100M

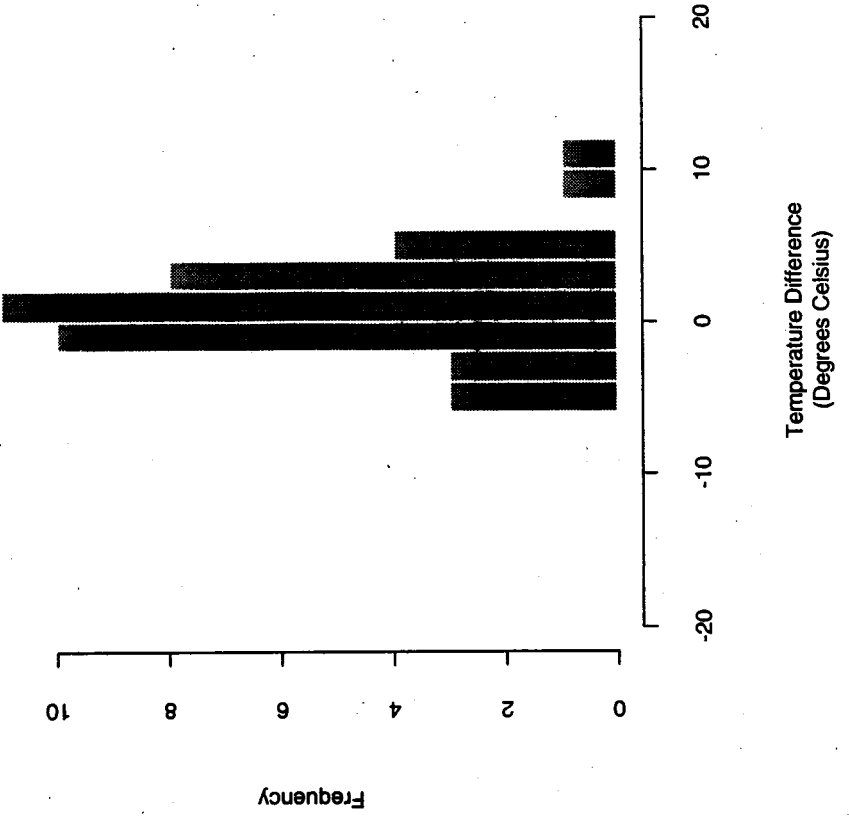
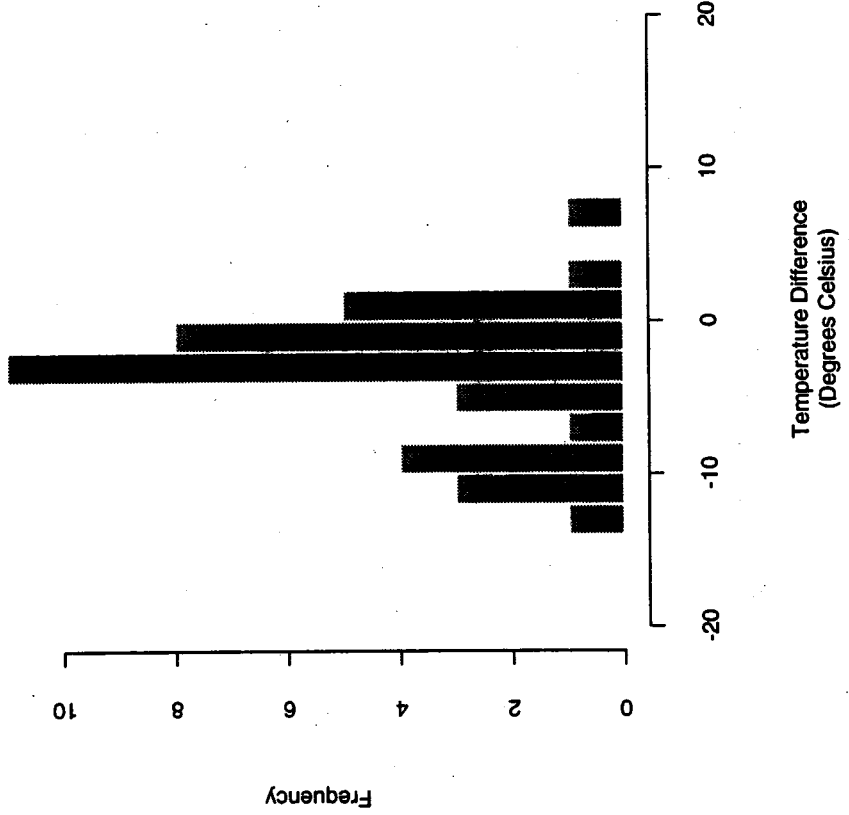


Frequency Distribution of Differences

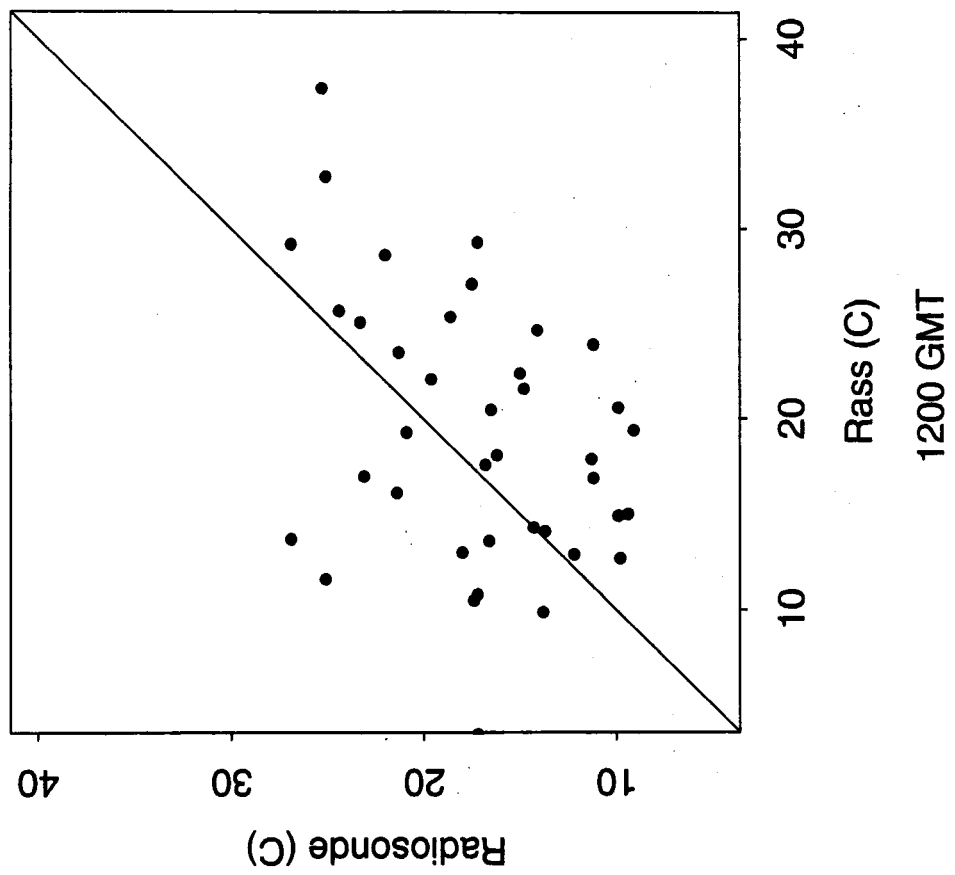
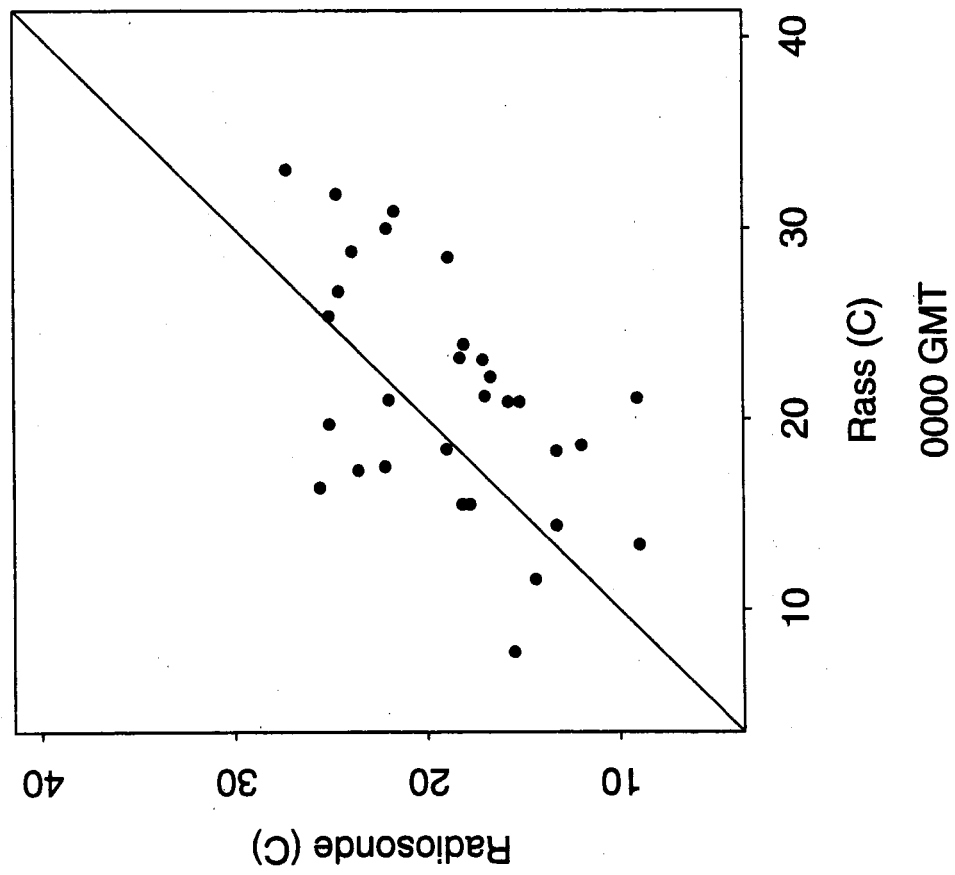
SCI(Radar Wind Profiler) - MFYR(Radiosonde), 100M

0000 GMT

1200 GMT



MYFR (Radiosonde) vs SCI (RASS), Height=1000M

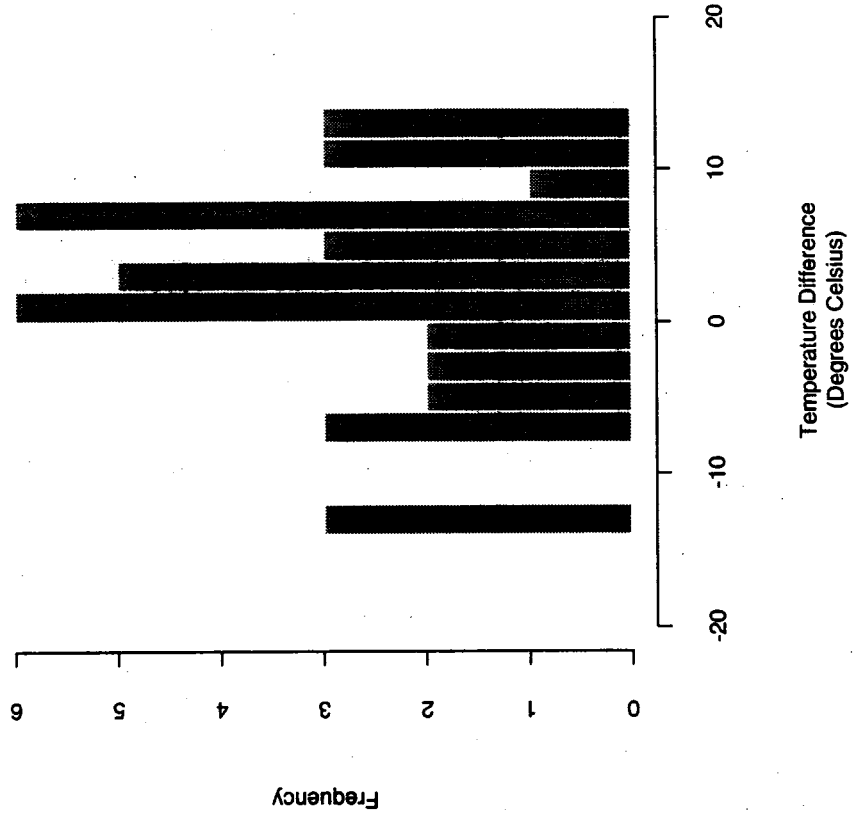
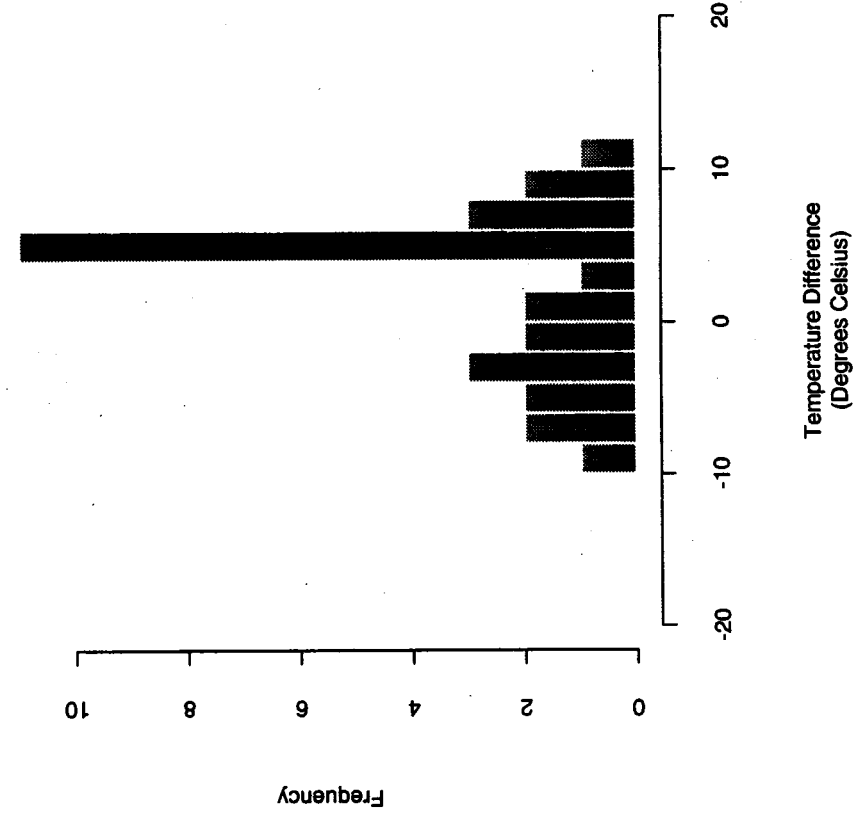


Frequency Distribution of Differences

SCI(Radar Wind Profiler) - MFYR(Radiosonde), 1000M

0000 GMT

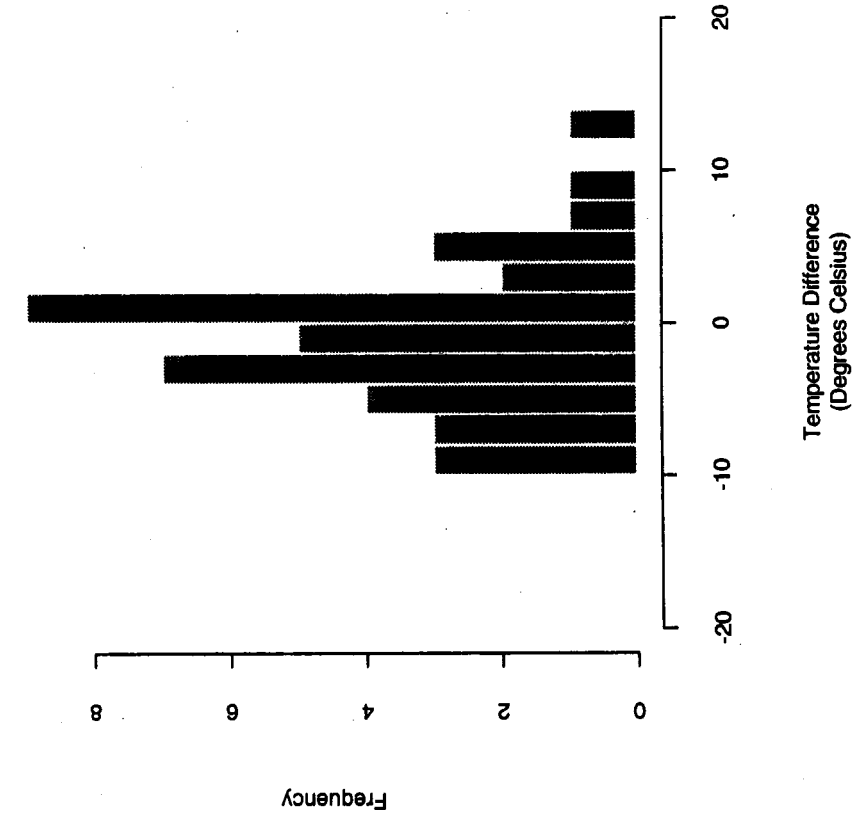
1200 GMT



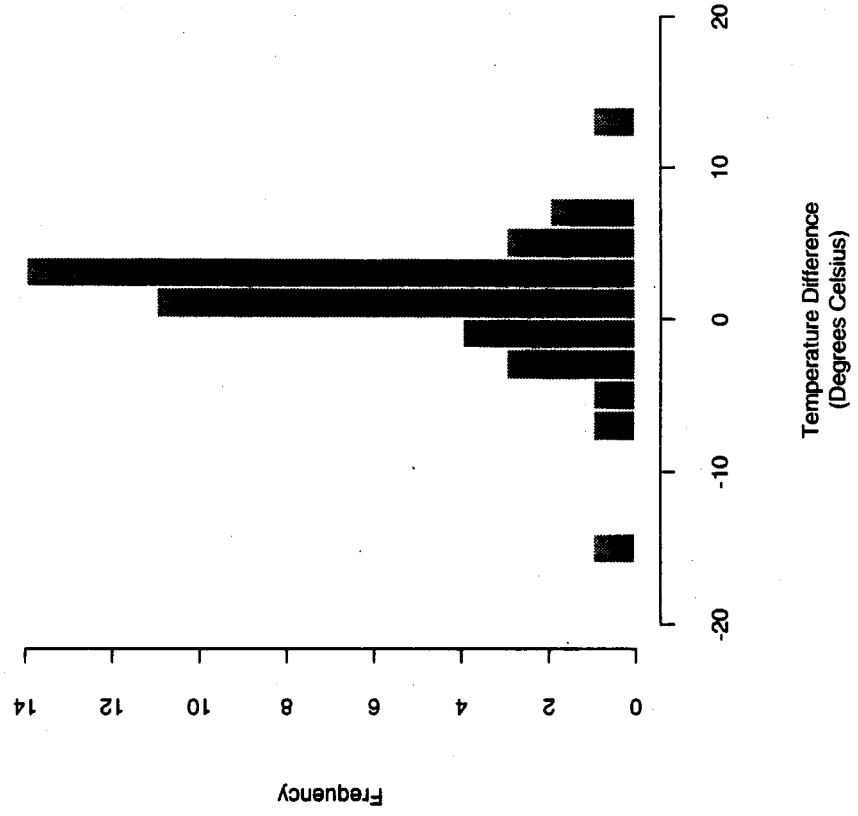
Frequency Distribution of Differences

SCI(Radar Wind Profiler) - MFYR(Radiosonde), 300M

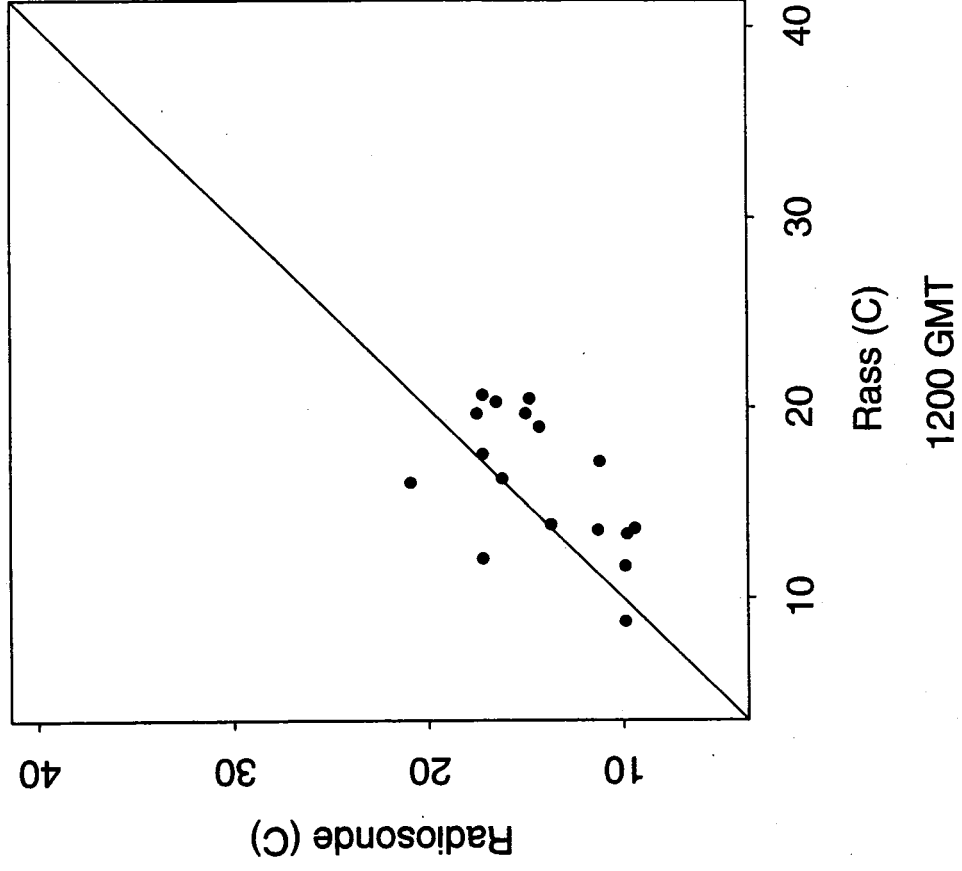
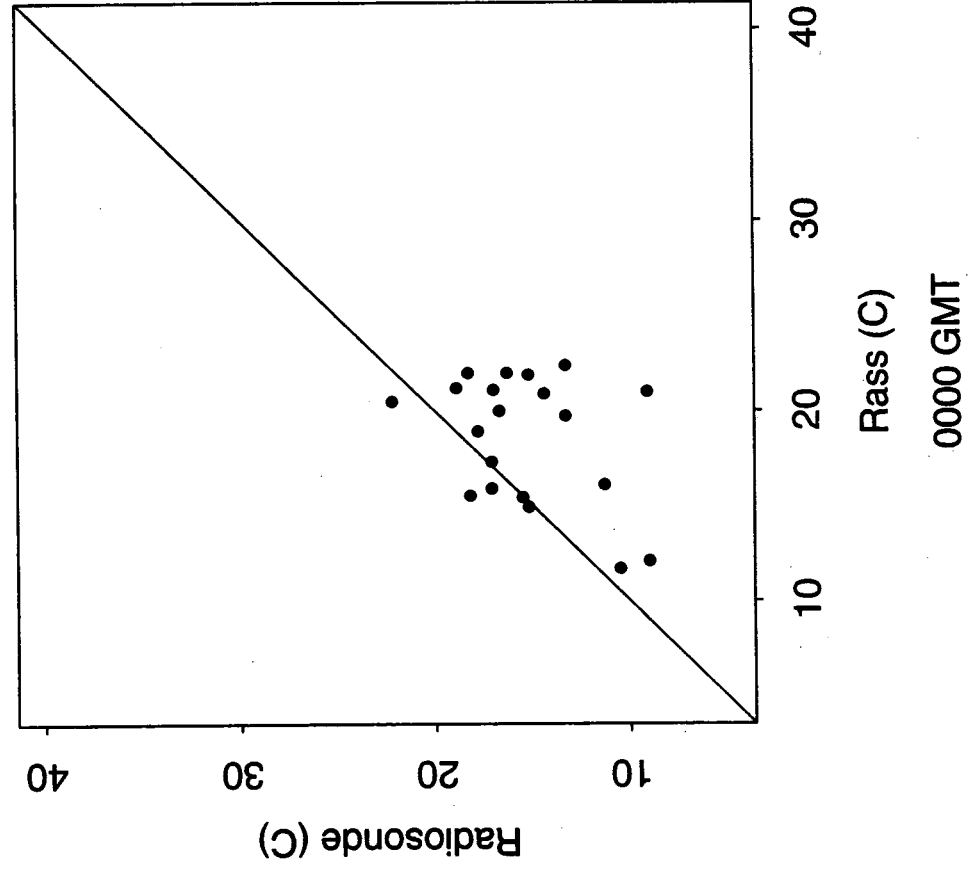
0000 GMT



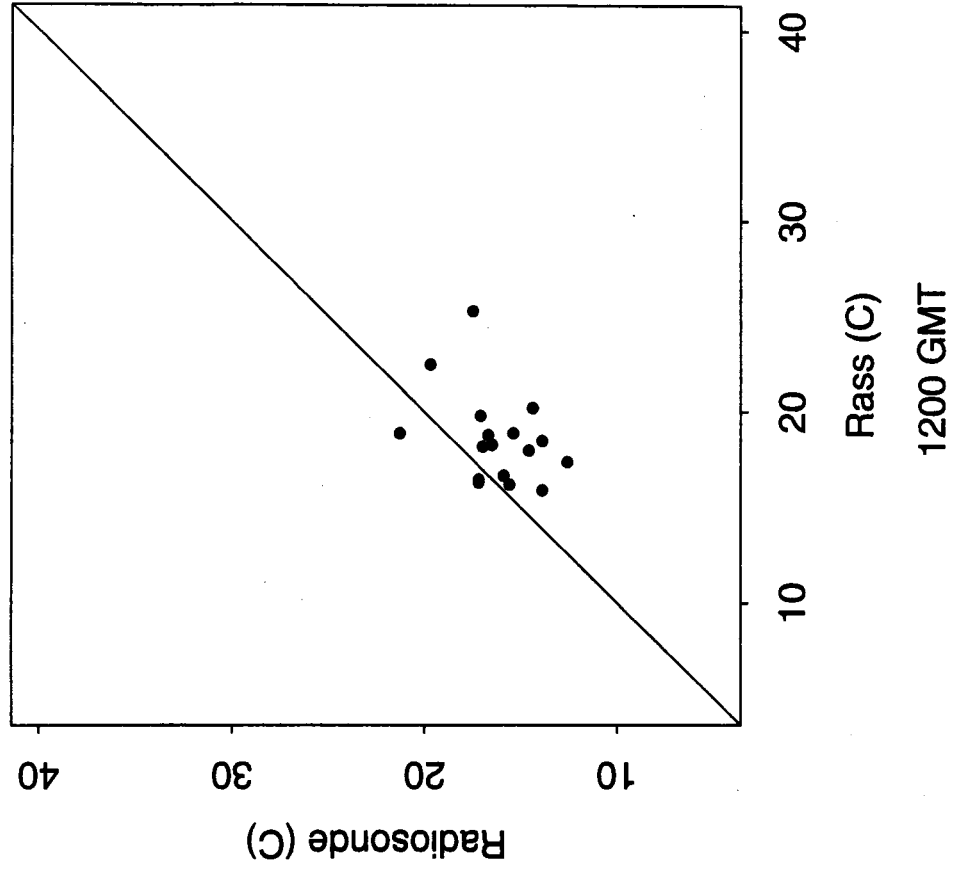
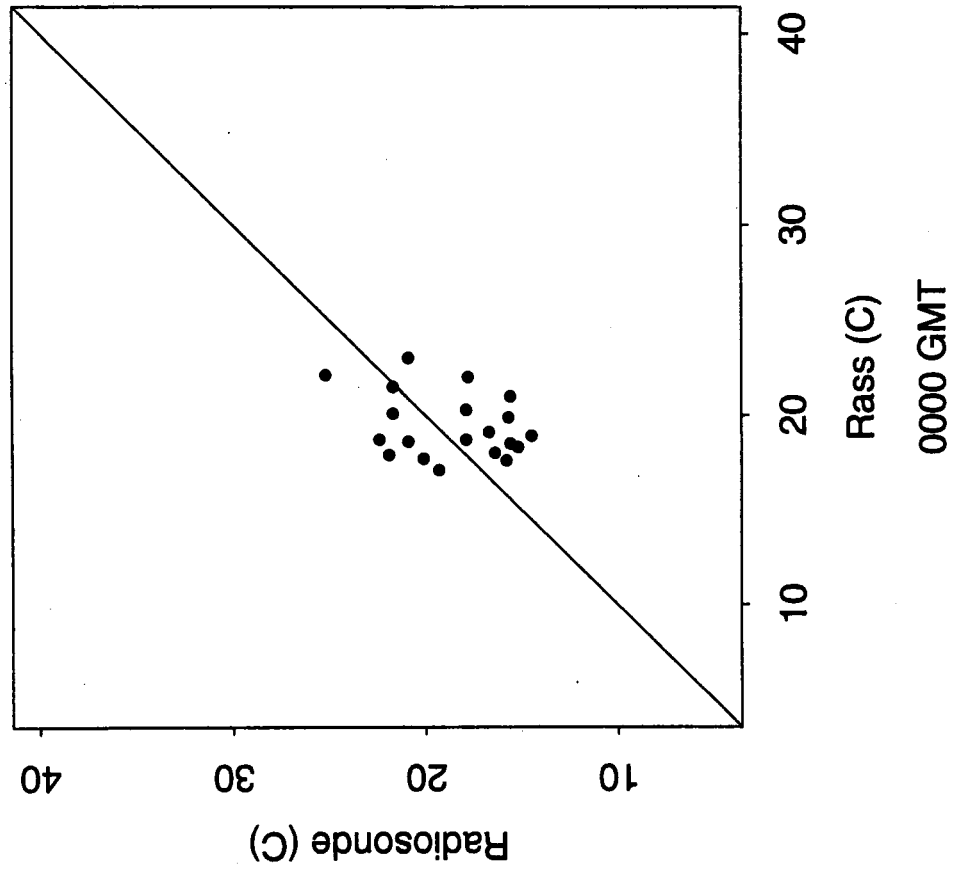
1200 GMT



MYFR (Radiosonde) vs PTL (RASS), Height=1000M



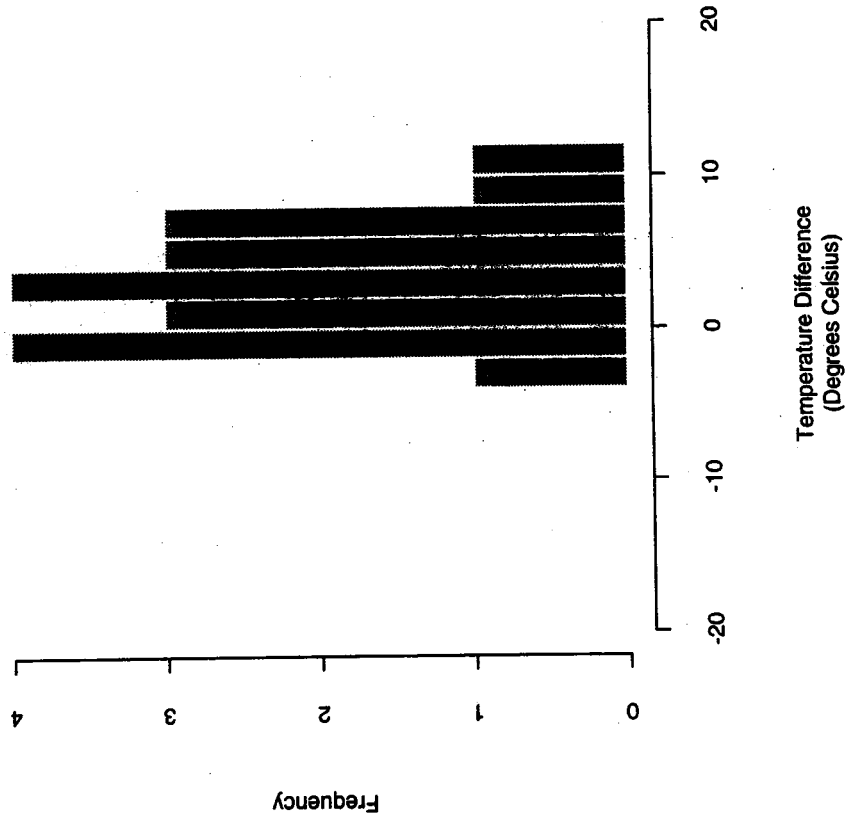
MYFR (Radiosonde) vs PTL (RASS), Height=300 M



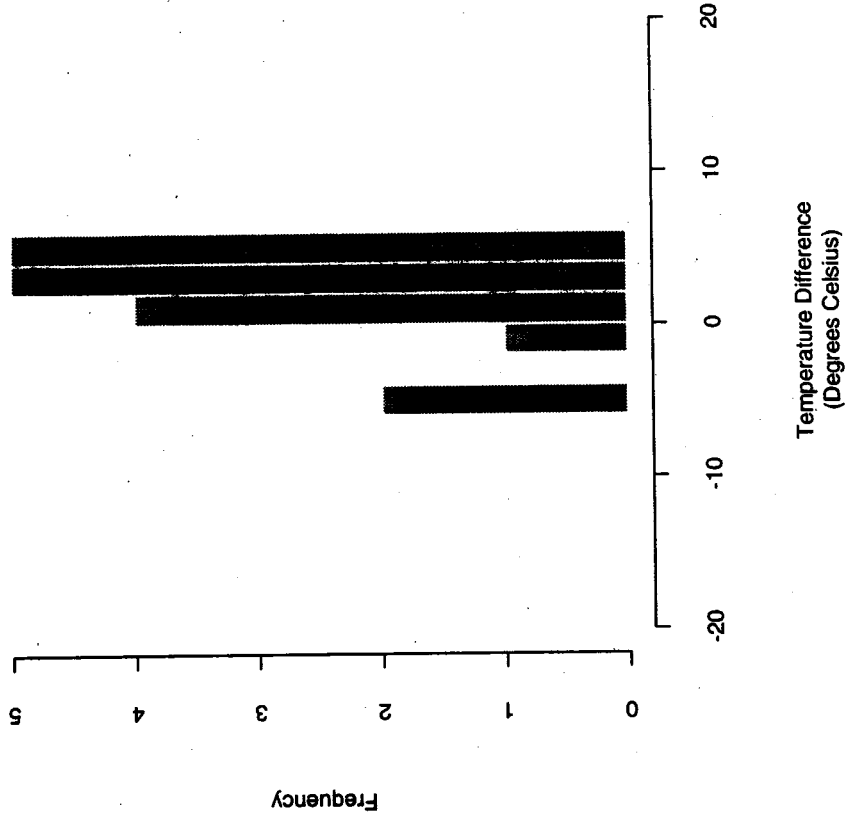
Frequency Distribution of Differences

PTL(Radar Wind Profiler) - MFYR(Radiosonde), 1000M

0000 GMT



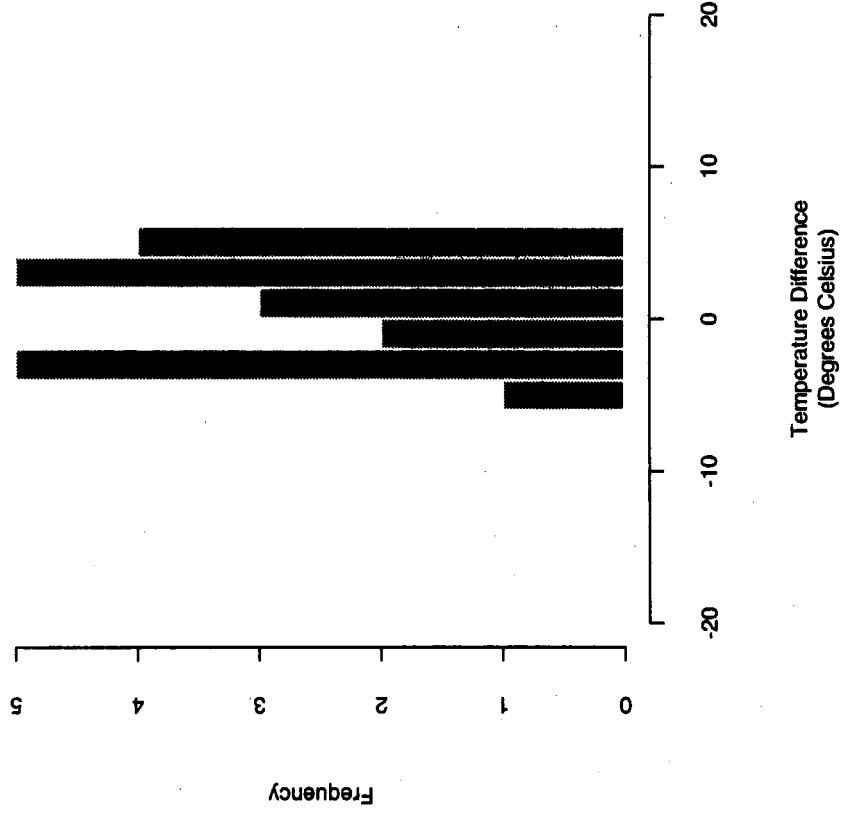
1200 GMT



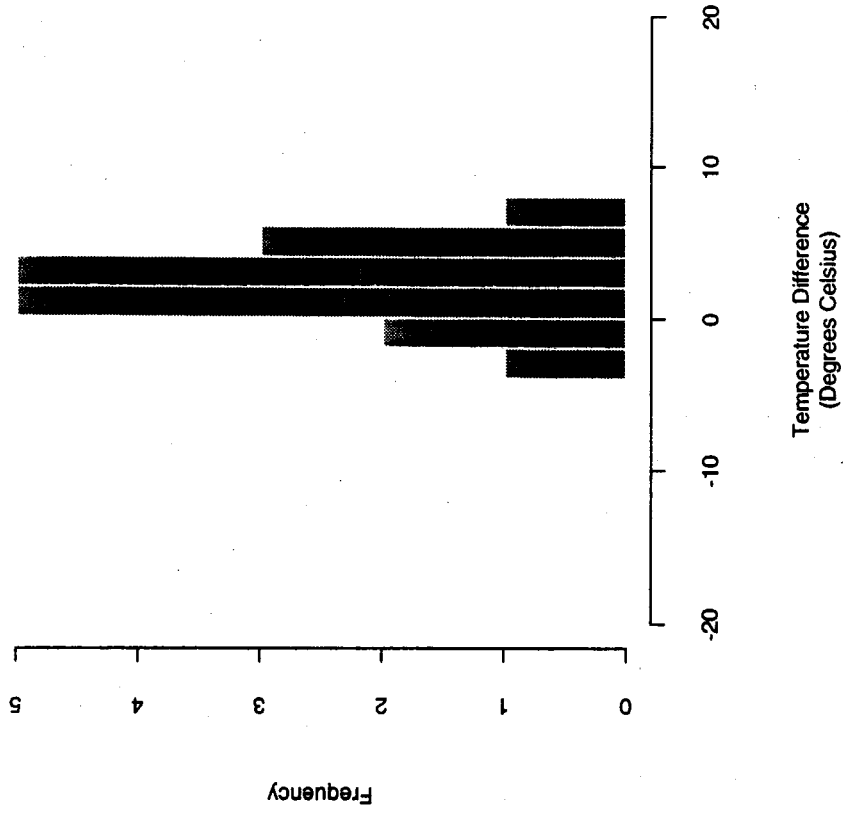
Frequency Distribution of Differences

PTL(Radar Wind Profiler) - MFYR(Radiosonde), 300M

0000 GMT



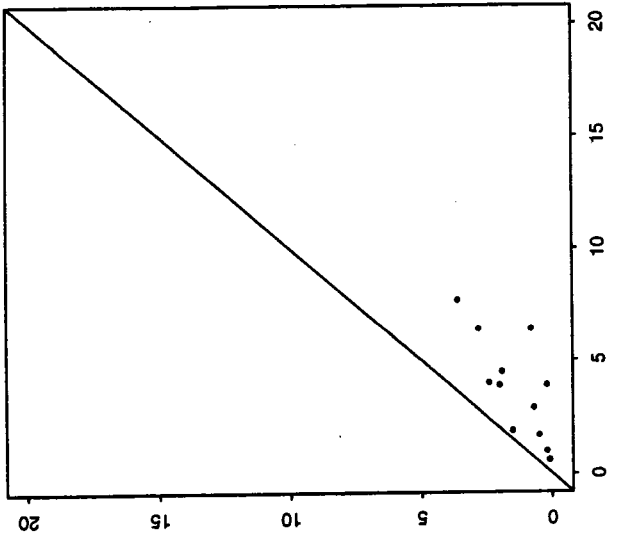
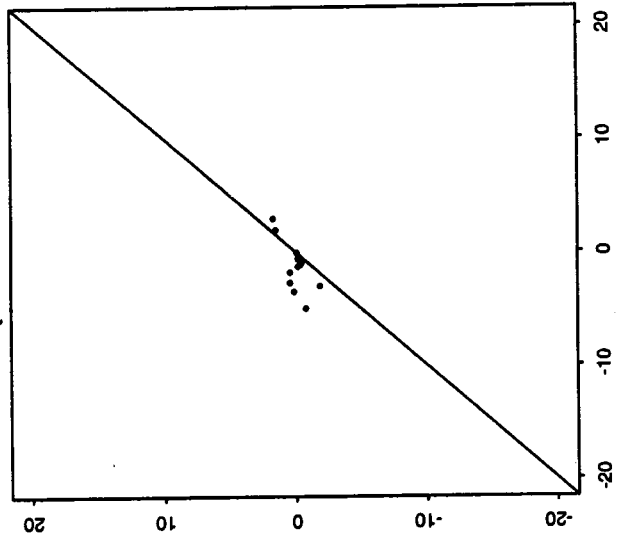
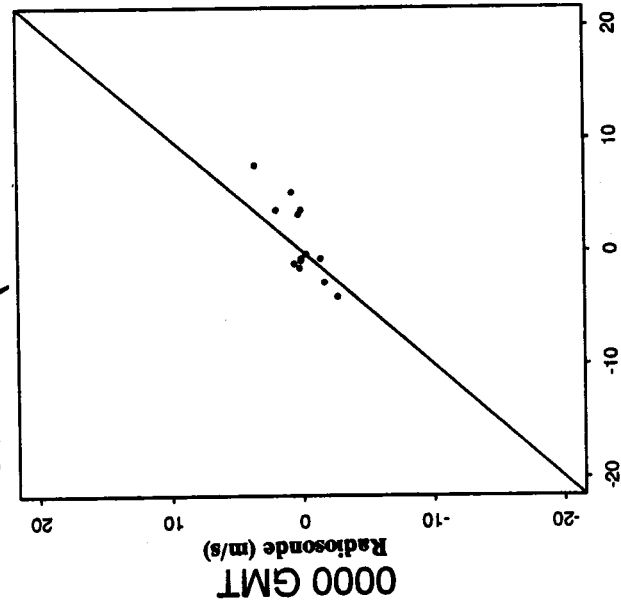
1200 GMT



Appendix C1

**SCATTER PLOTS OF U AND V WIND COMPONENTS AND WIND SPEEDS AND
HISTOGRAMS OF DIFFERENCES BETWEEN U AND V WIND COMPONENT,
WIND SPEED, AND WIND DIRECTION DATA FOR RADAR WIND PROFILER
(RWP) AND RADIOSONDE SITE PAIRS LOCATED IN THE SOUTH COAST AIR
BASIN (SOCAB)**

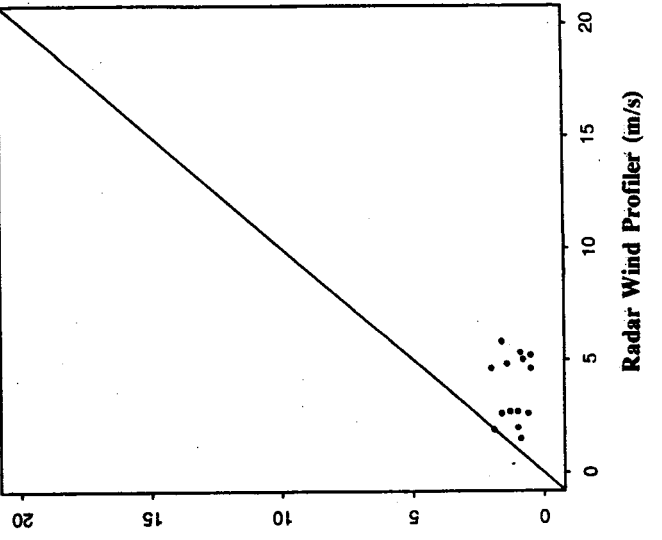
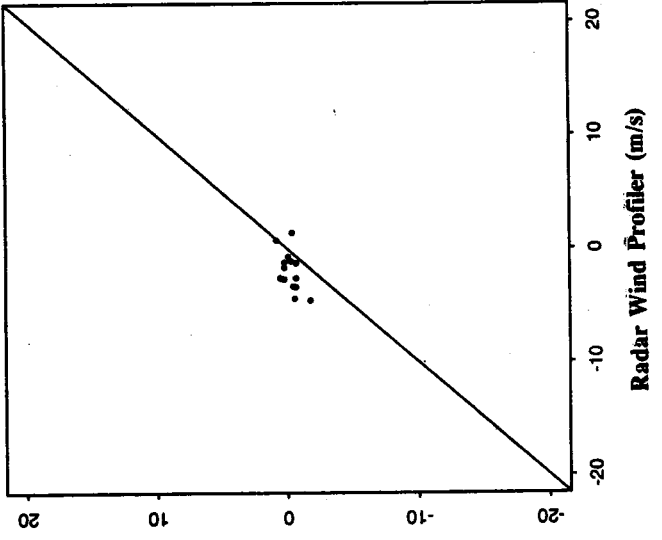
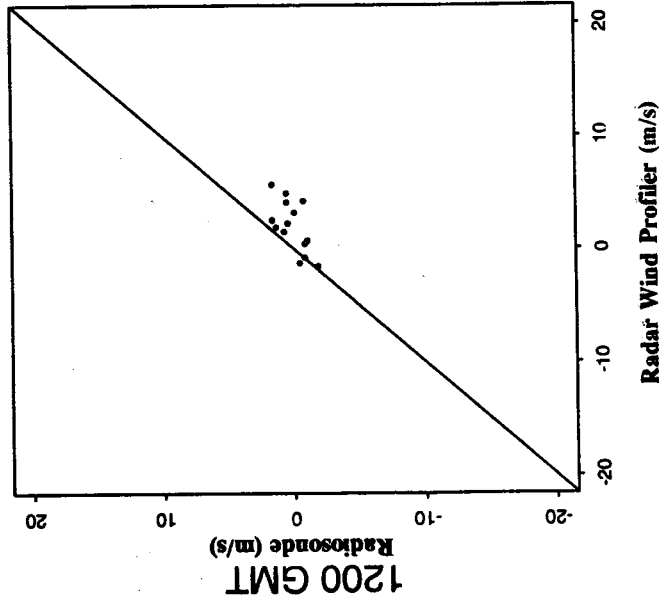
NTDR (Radiosonde) vs PTM (Radar Wind Profiler), Height=1000M



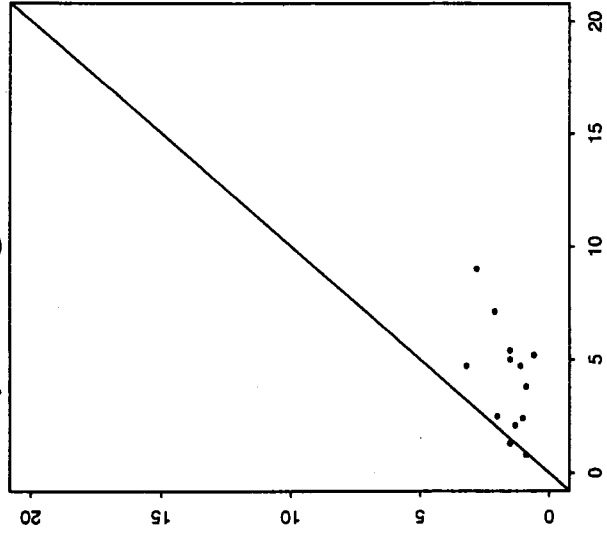
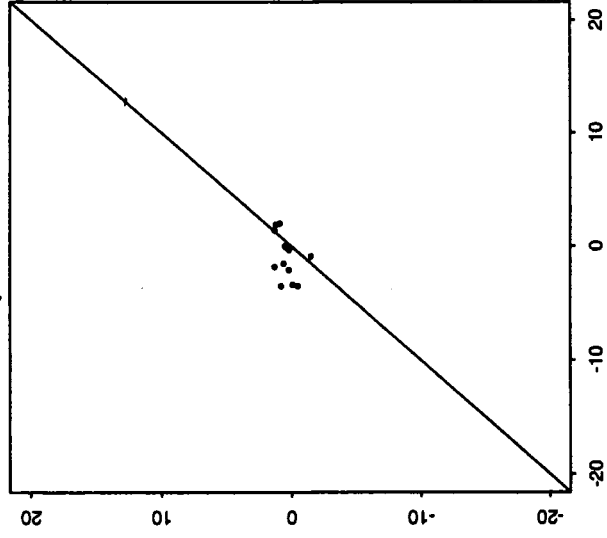
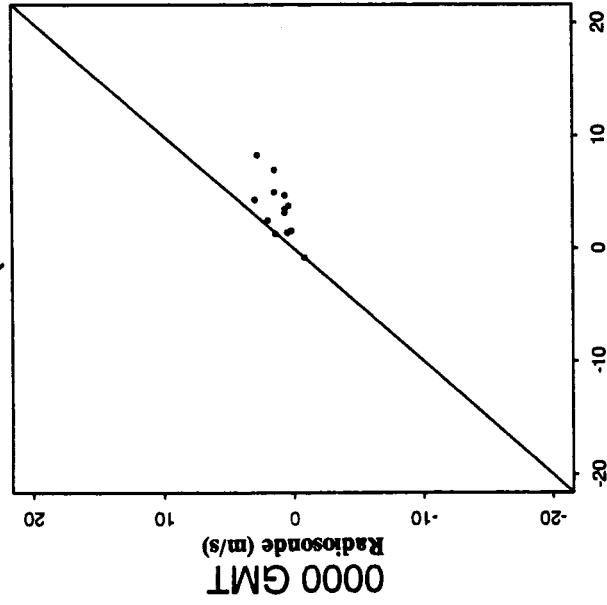
U-Component (m/s)

V-Component (m/s)

Wind Speed (m/s)



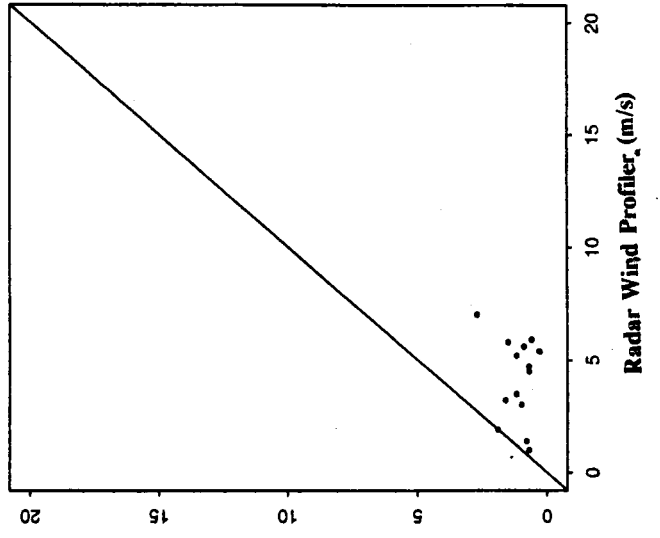
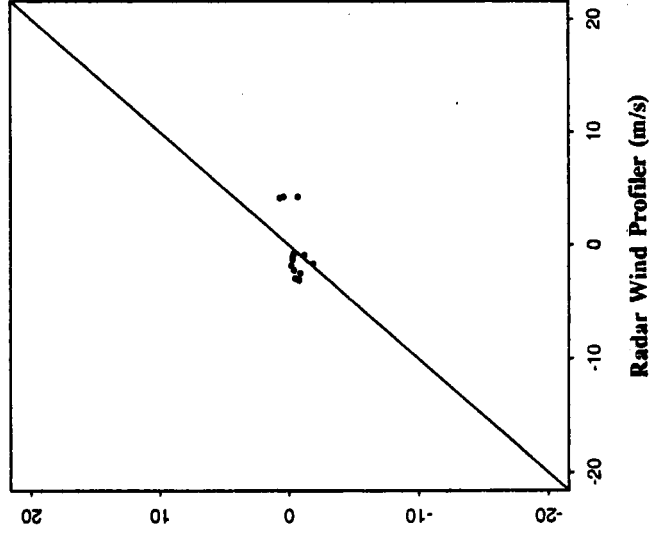
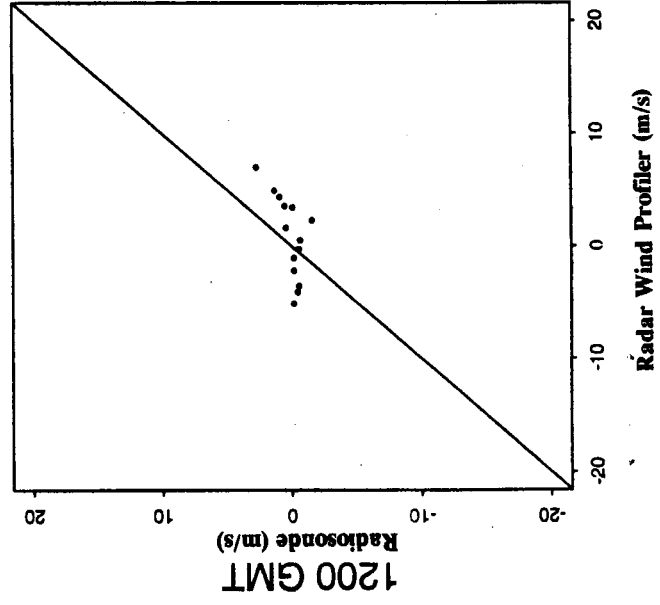
NTDR (Radiosonde) vs PTM (Radar Wind Profiler), Height=300M



U-Component (m/s)

V-Component (m/s)

Wind Speed (m/s)



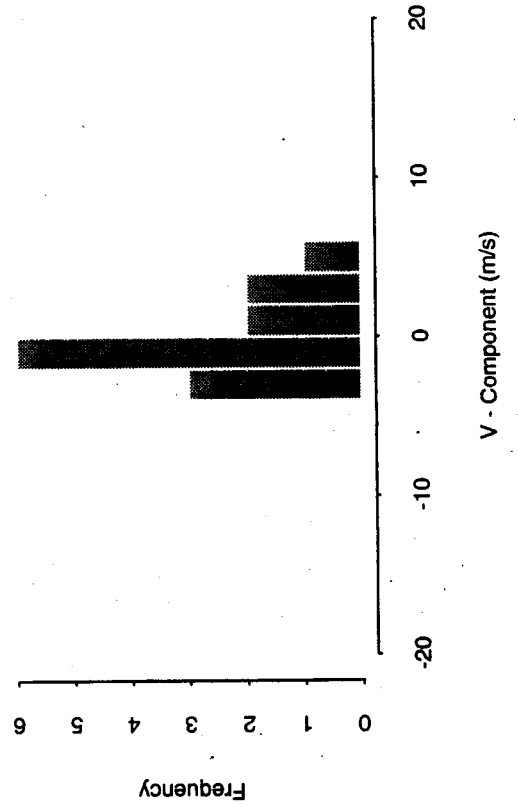
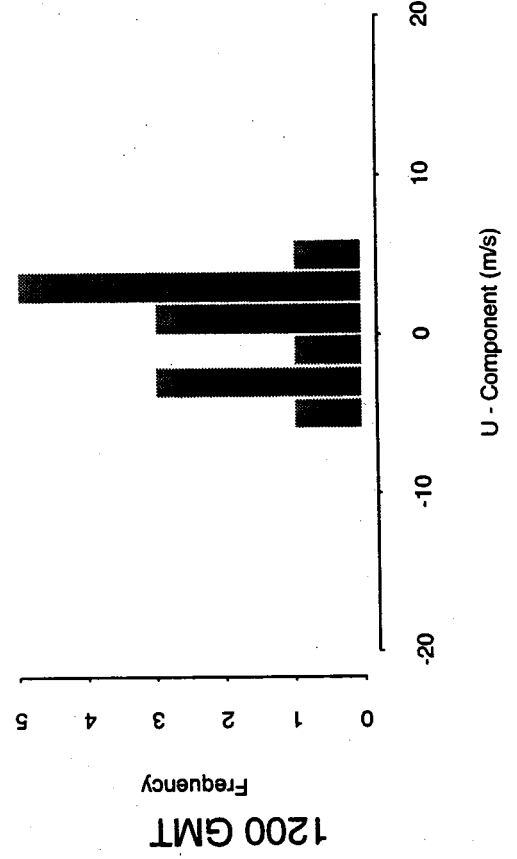
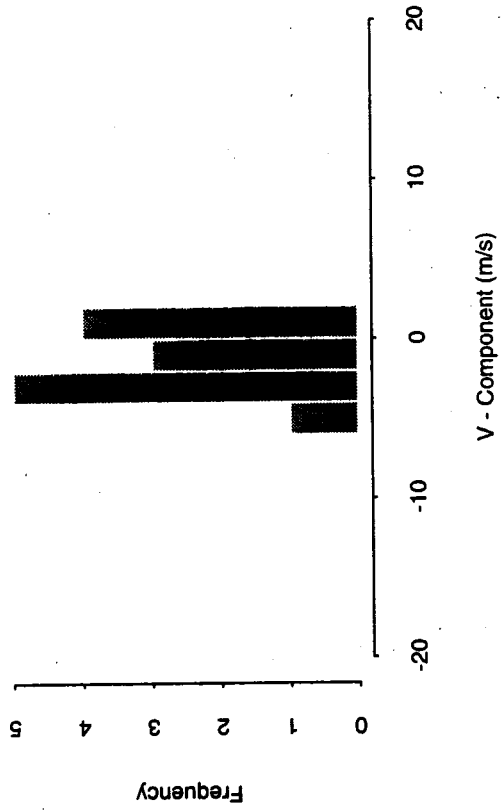
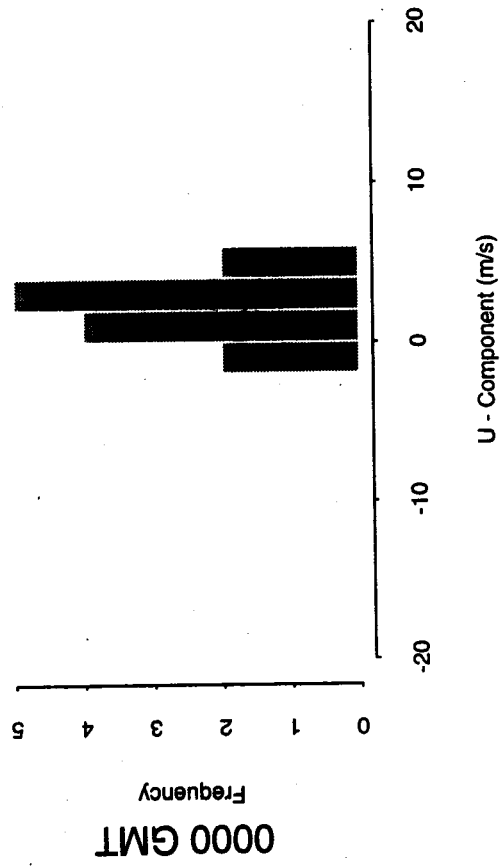
Radar Wind Profiler (m/s)

Radar Wind Profiler (m/s)

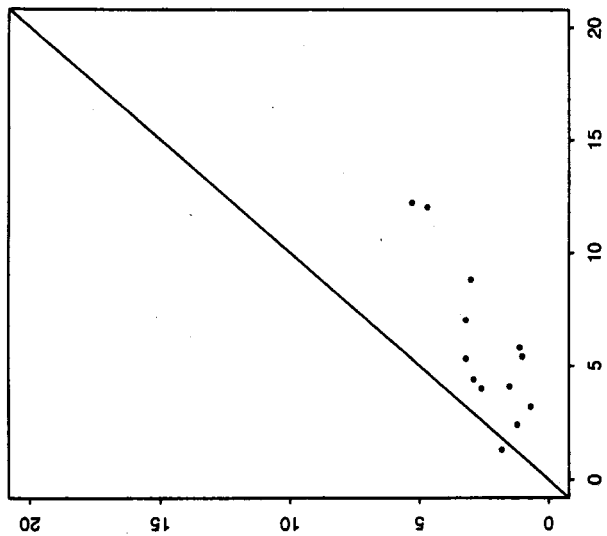
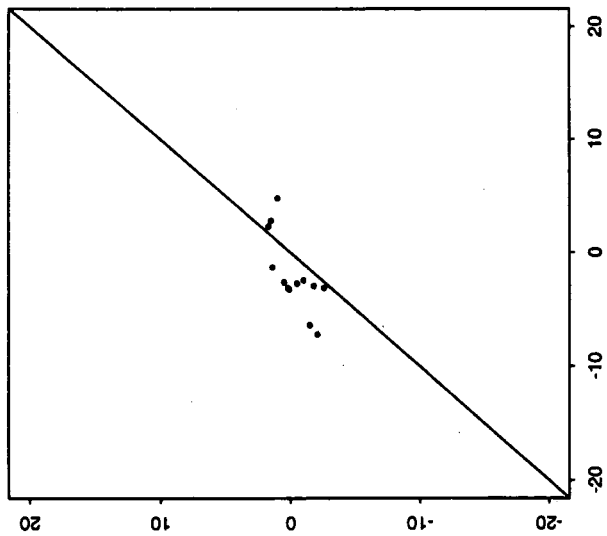
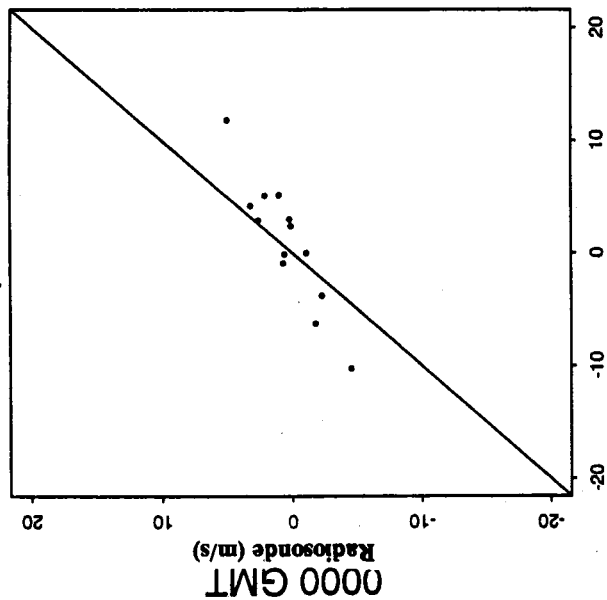
Radar Wind Profiler (m/s)

Frequency Distribution of Differences

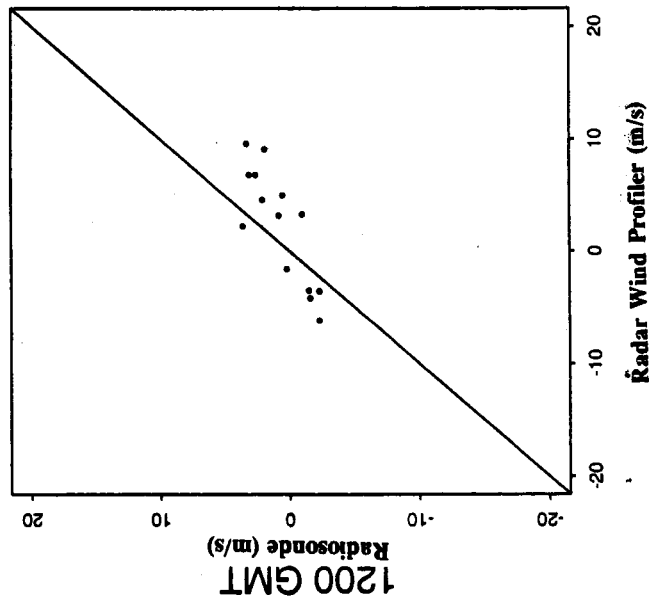
PTM (Radar Wind Profiler) - NTDR (Radiosonde), 300M



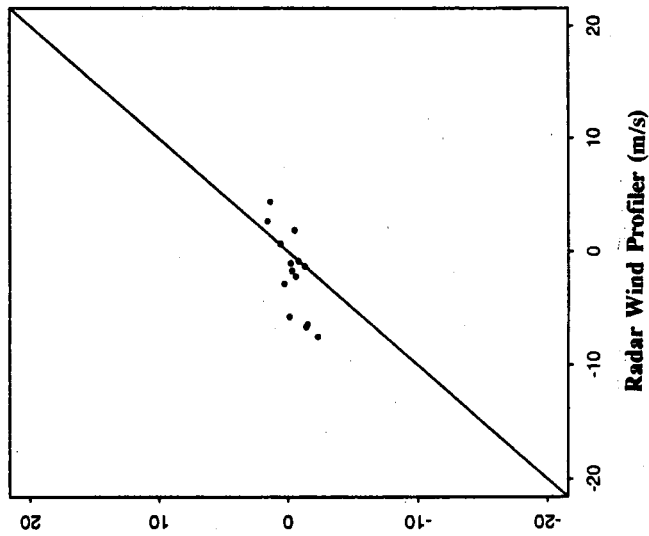
NTDR (Radiosonde) vs PTM (Radar Wind Profiler), Height=2000M



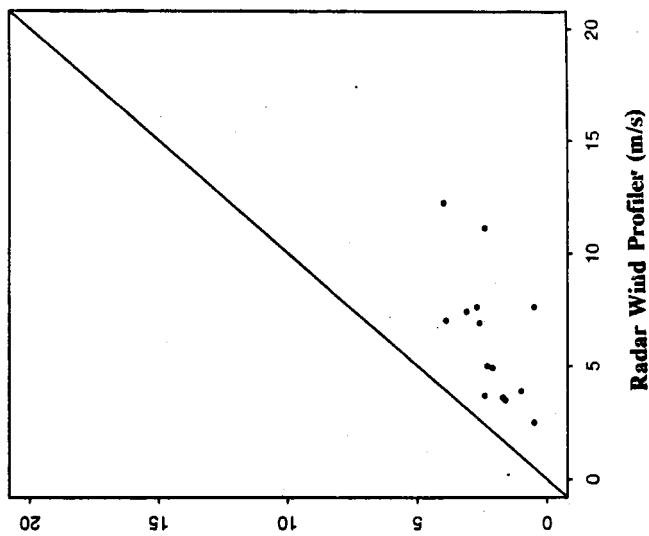
U-Component (m/s)



V-Component (m/s)

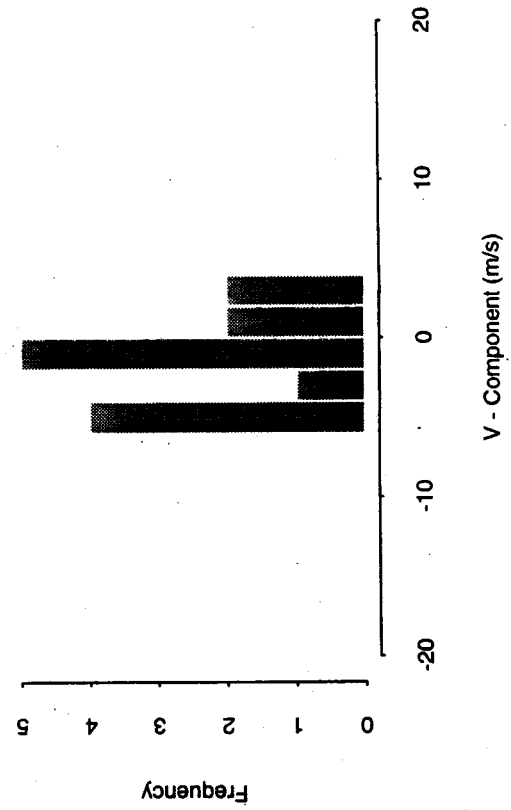
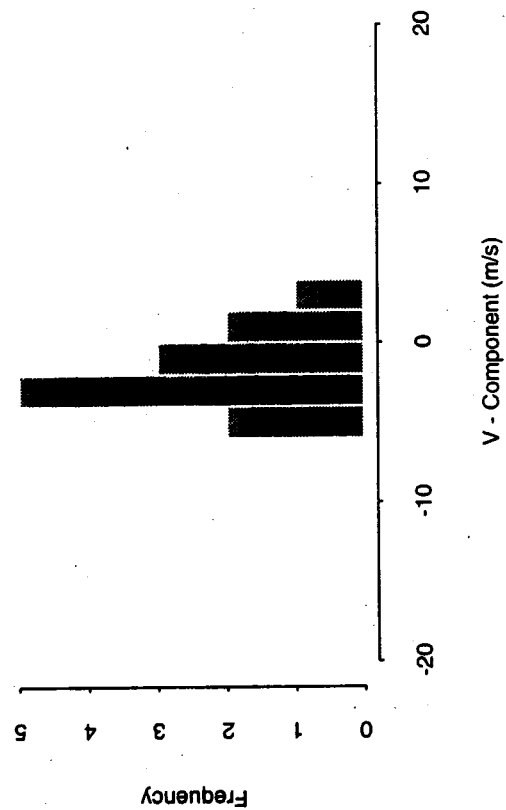
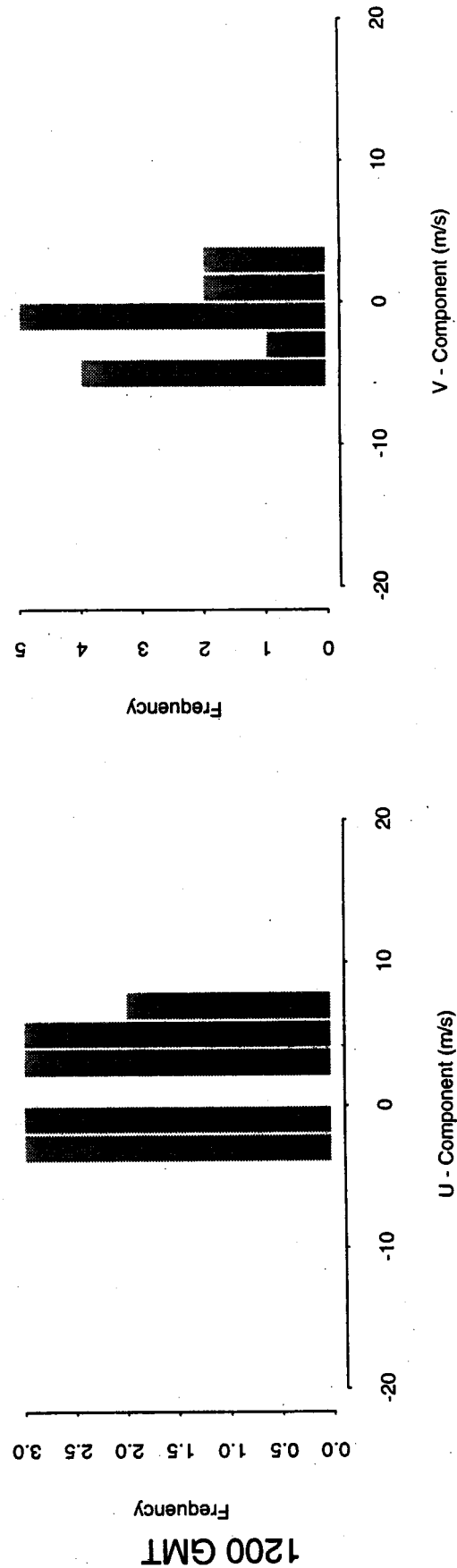
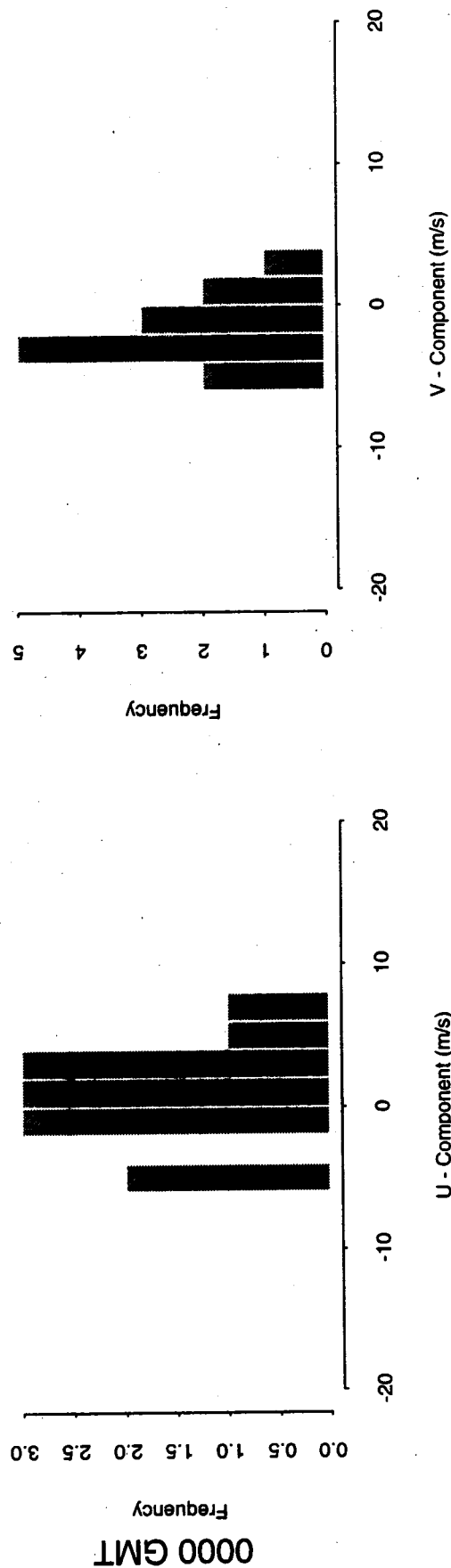


Wind Speed (m/s)



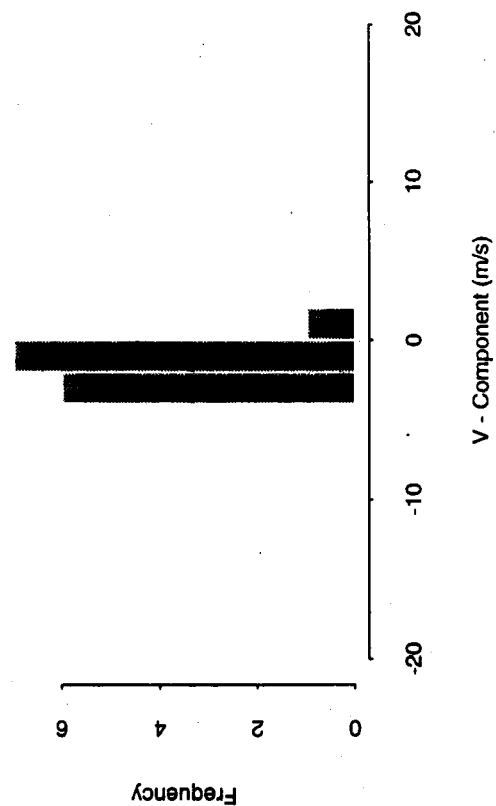
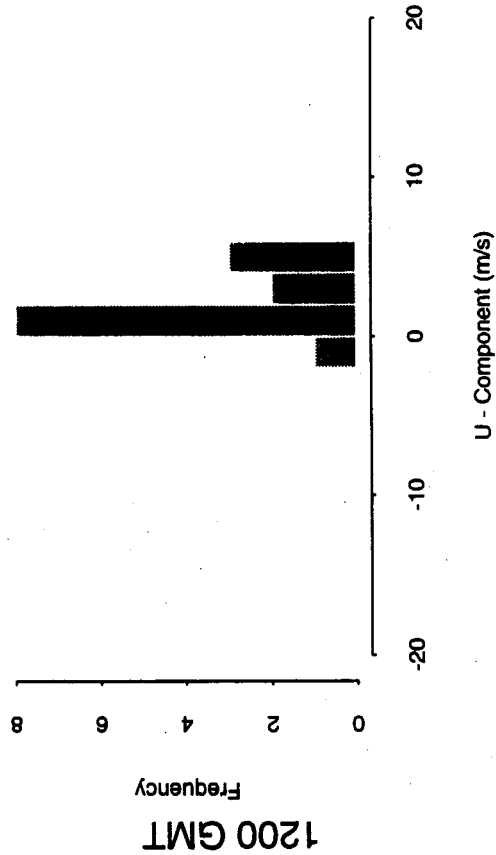
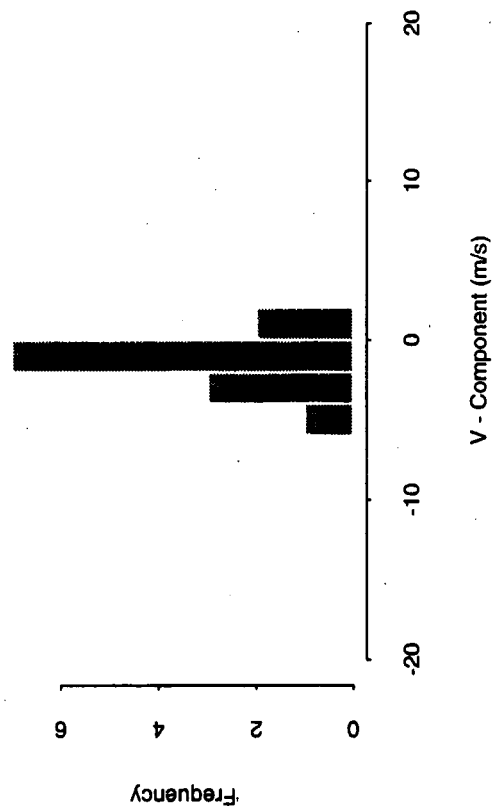
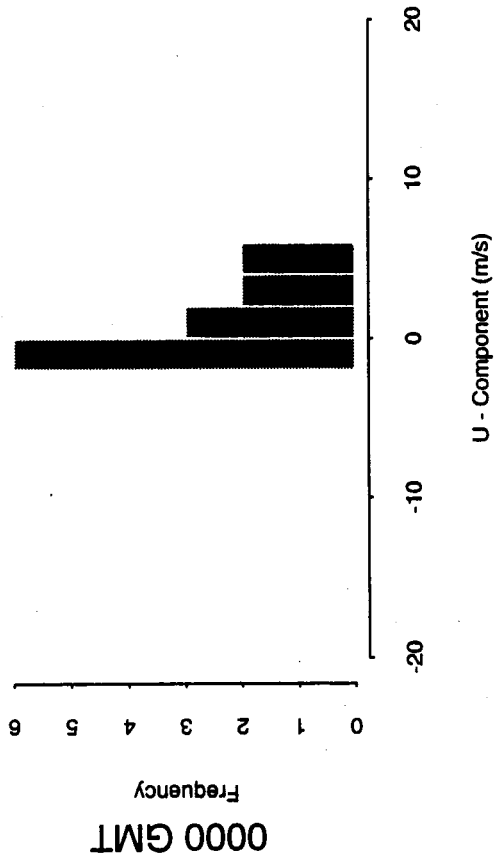
Frequency Distribution of Differences

PTM (Radar Wind Profiler) - NTDR (Radiosonde), 2000M



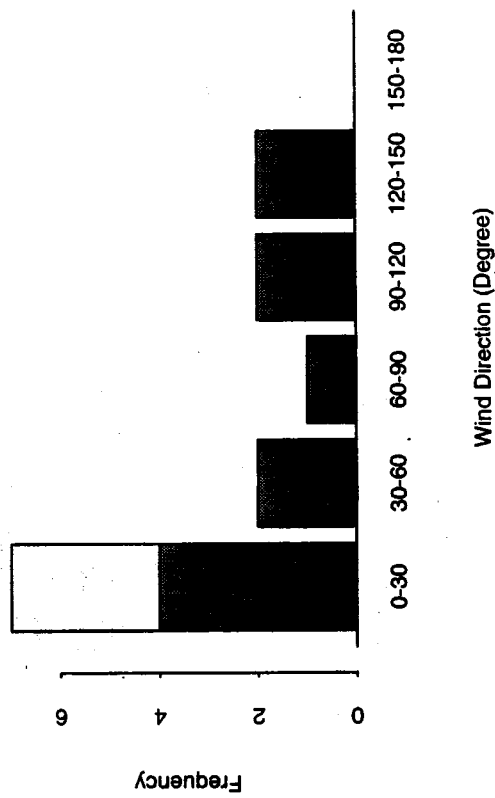
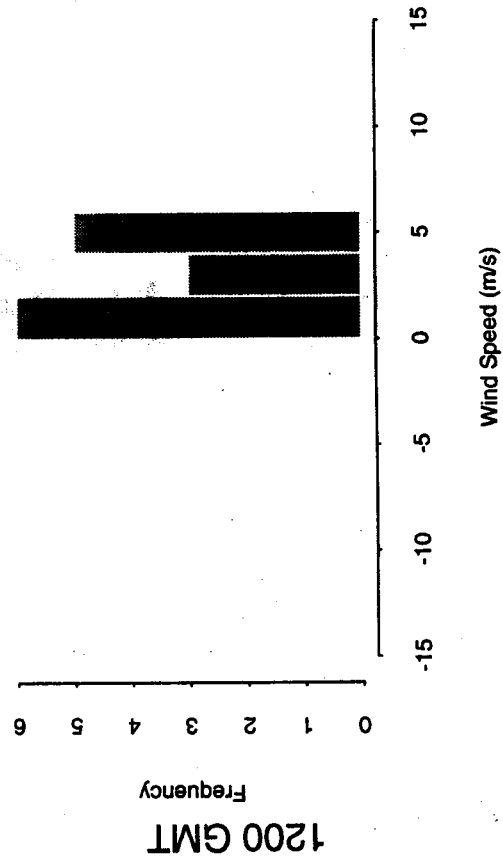
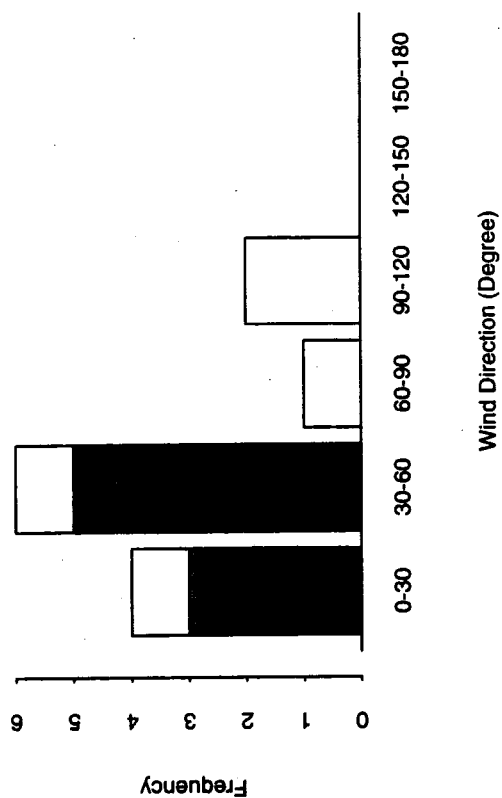
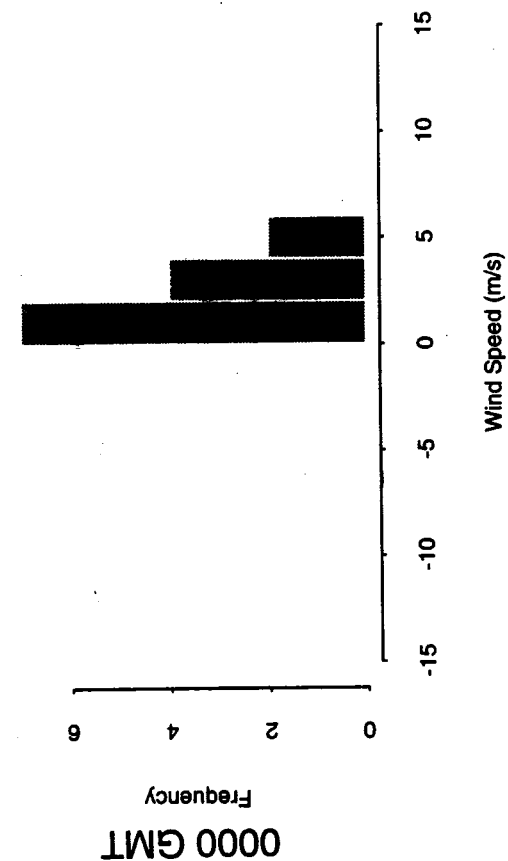
Frequency Distribution of Differences

PTM (Radar Wind Profiler) - NTDR (Radiosonde), 1000M



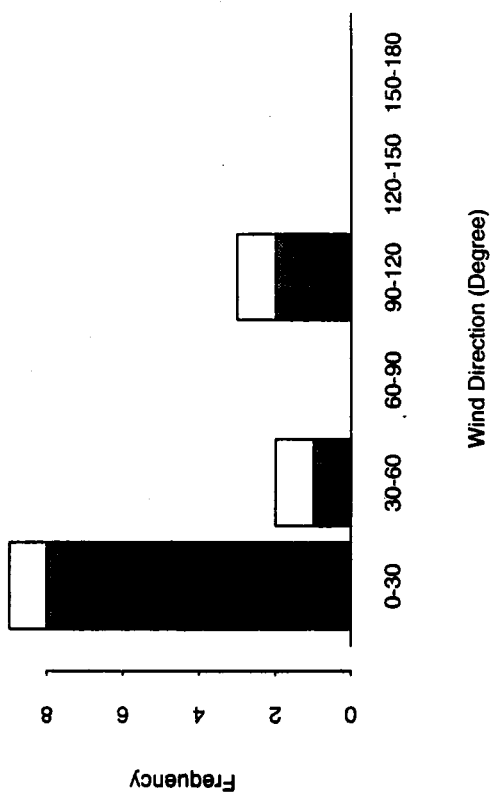
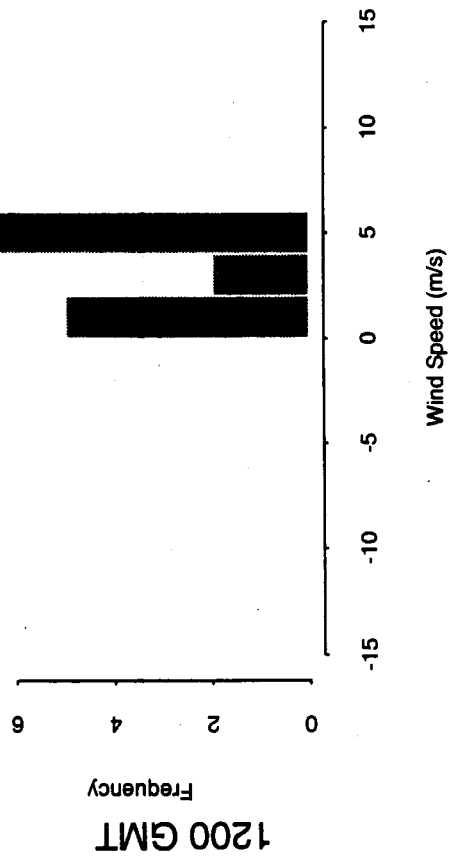
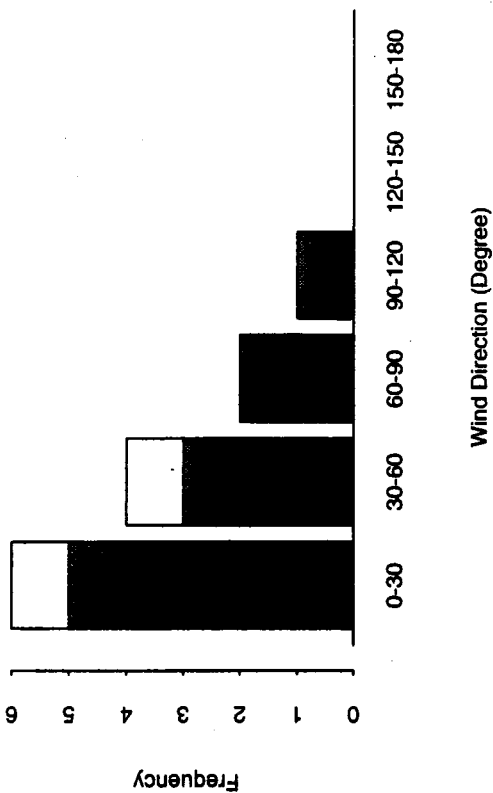
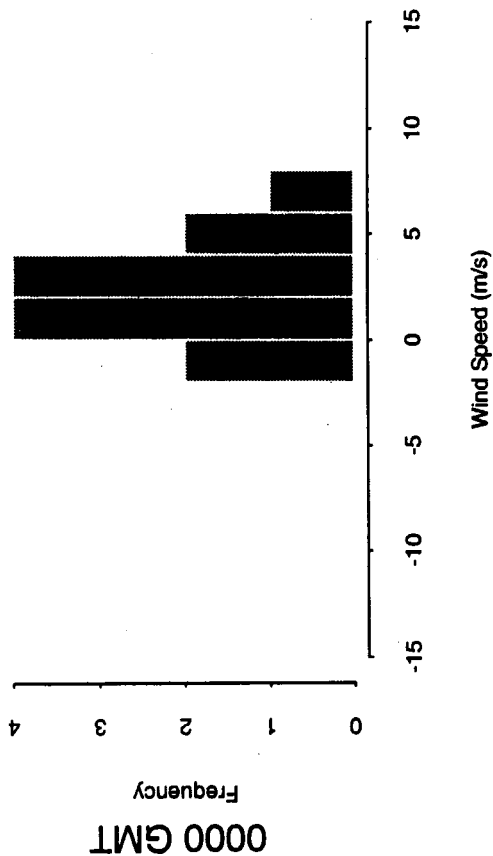
Frequency Distribution of Differences

PTM (Radar Wind Profiler) - NTDR (Radiosonde), 1000M

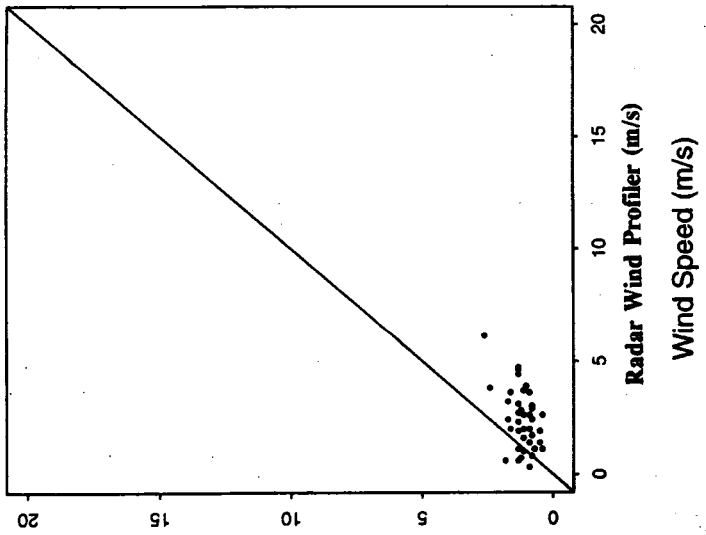
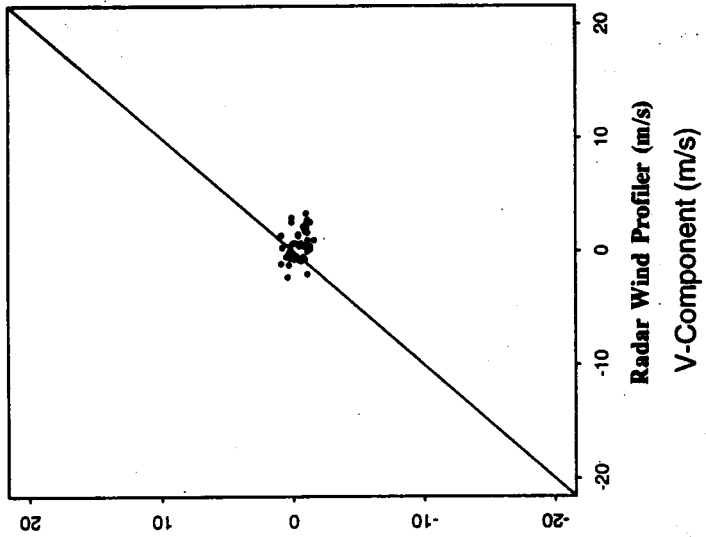
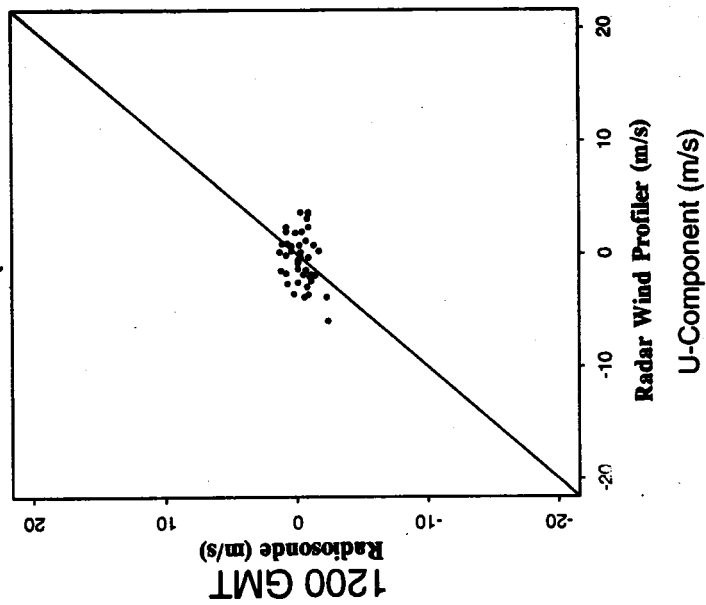


Frequency Distribution of Differences

PTM (Radar Wind Profiler) - NTDR (Radiosonde), 300M

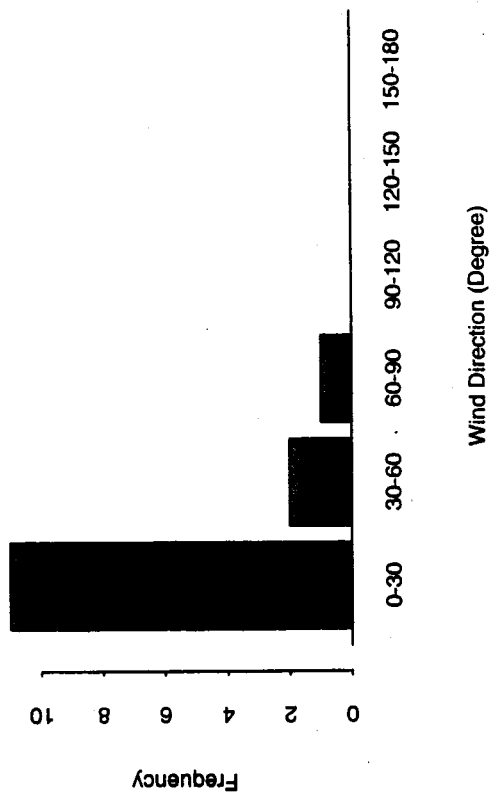
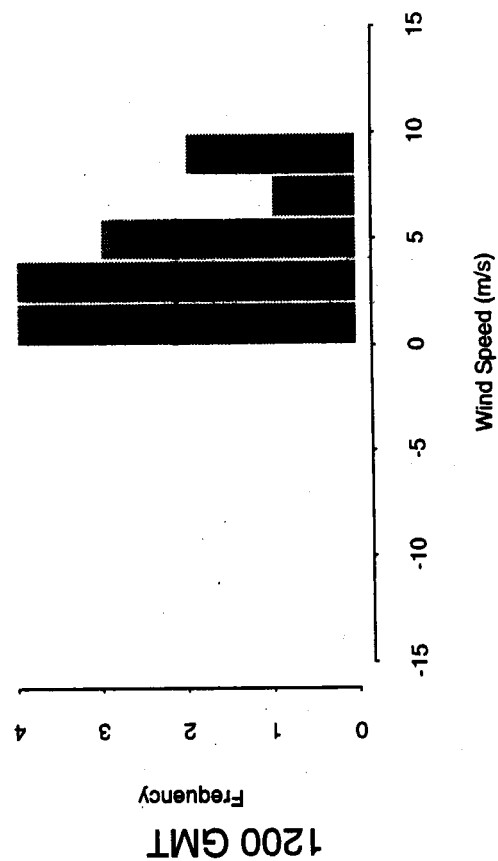
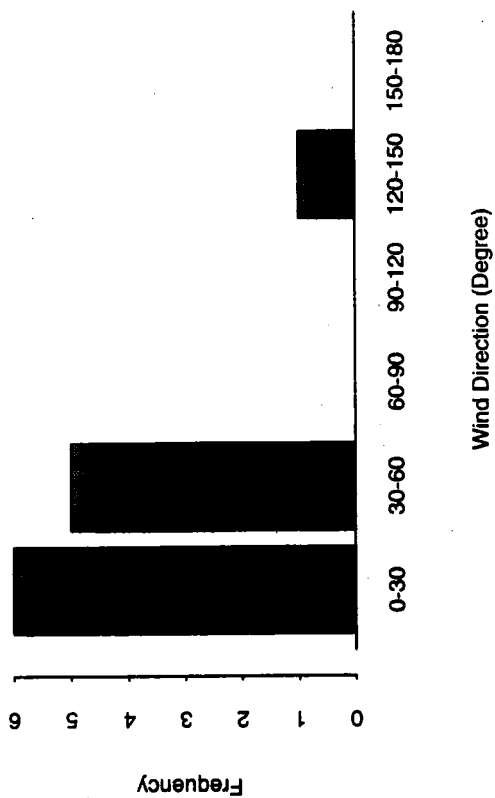
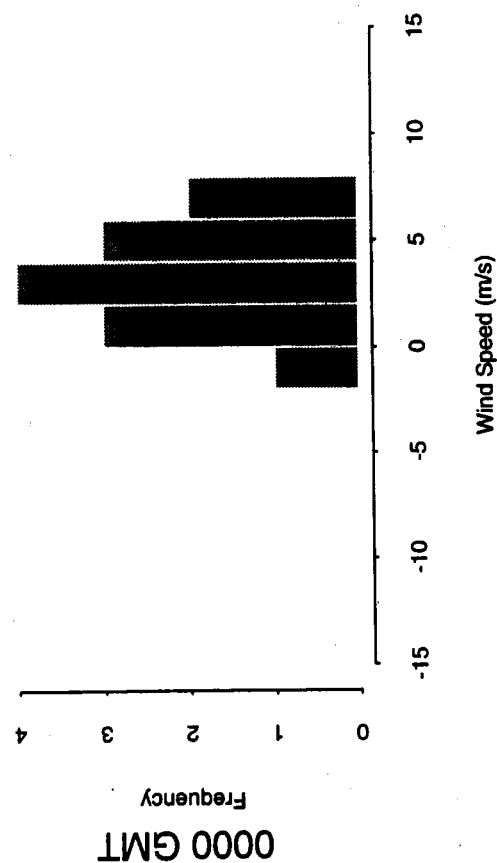


UCLR (Radiosonde) vs LAX (Radar Wind Profiler), Height=100M

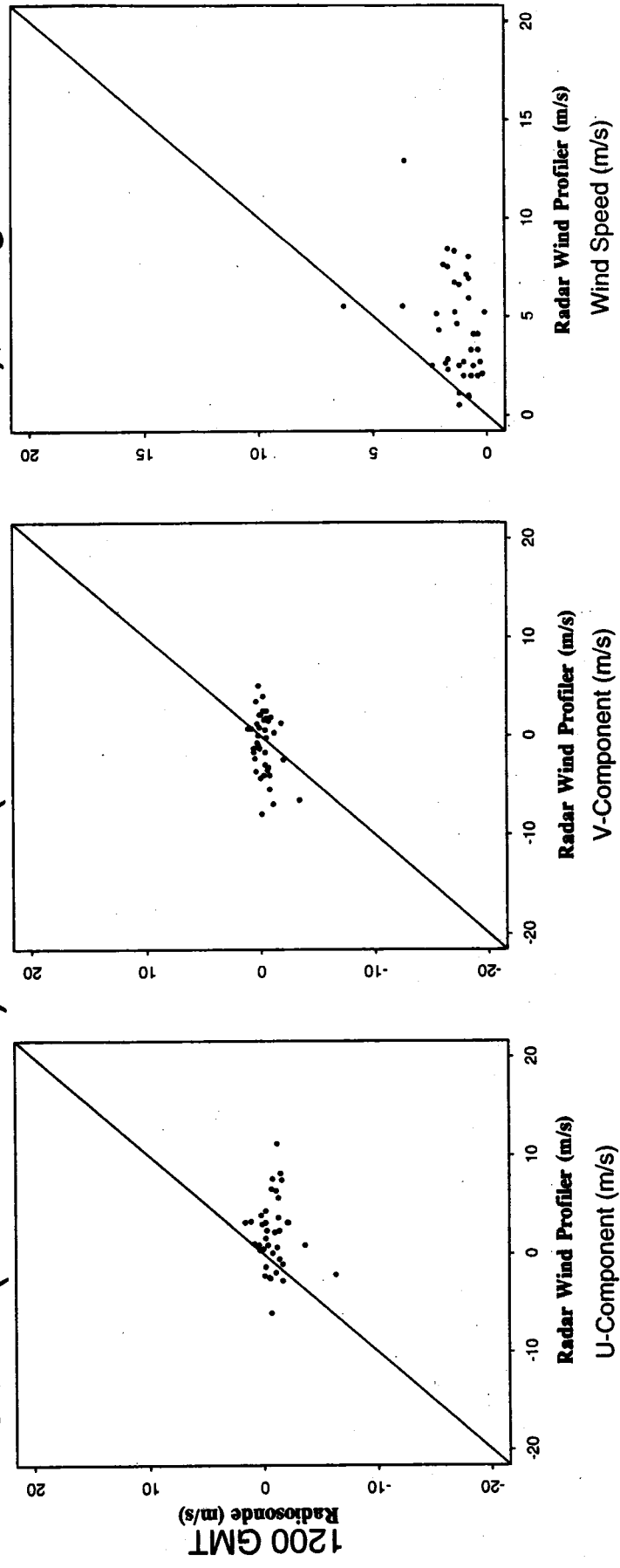


Frequency Distribution of Differences

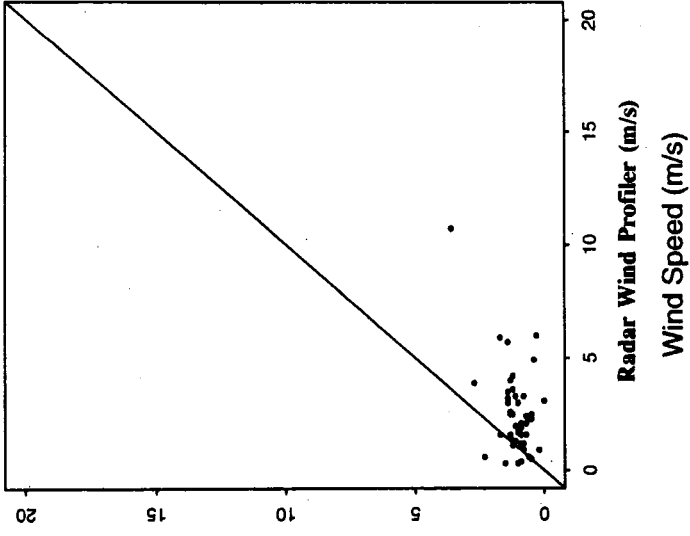
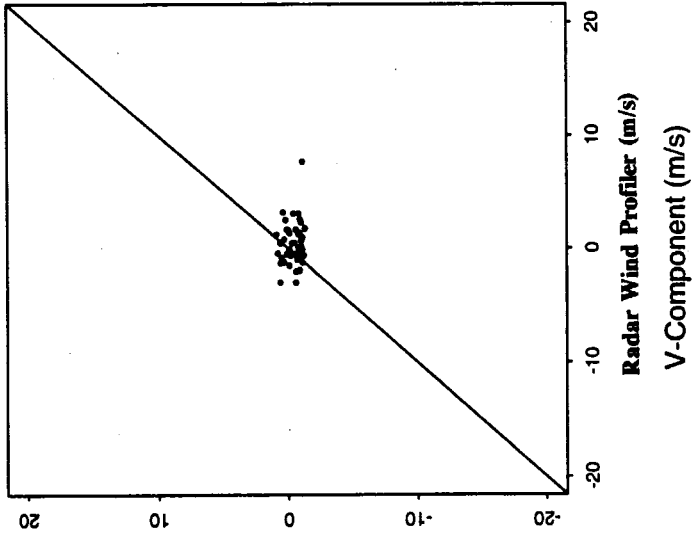
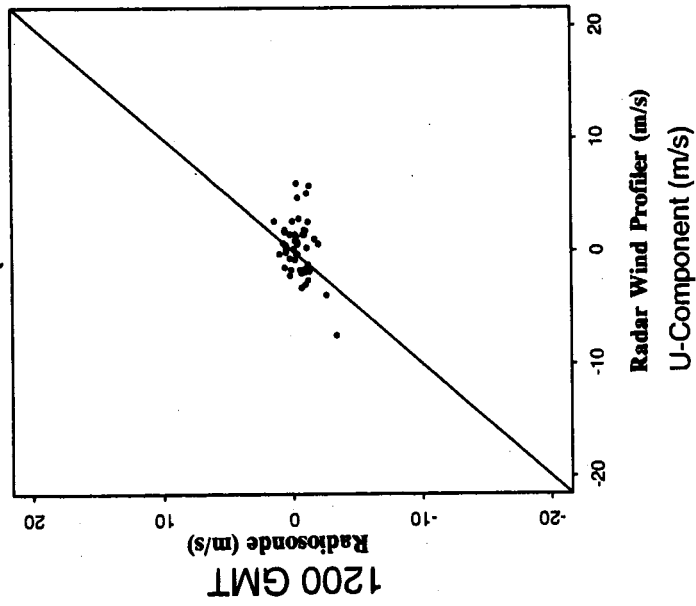
PTM (Radar Wind Profiler) - NTDR (Radiosonde), 2000M



UCLR (Radiosonde) vs LAX (Radar Wind Profiler), Height=1000M

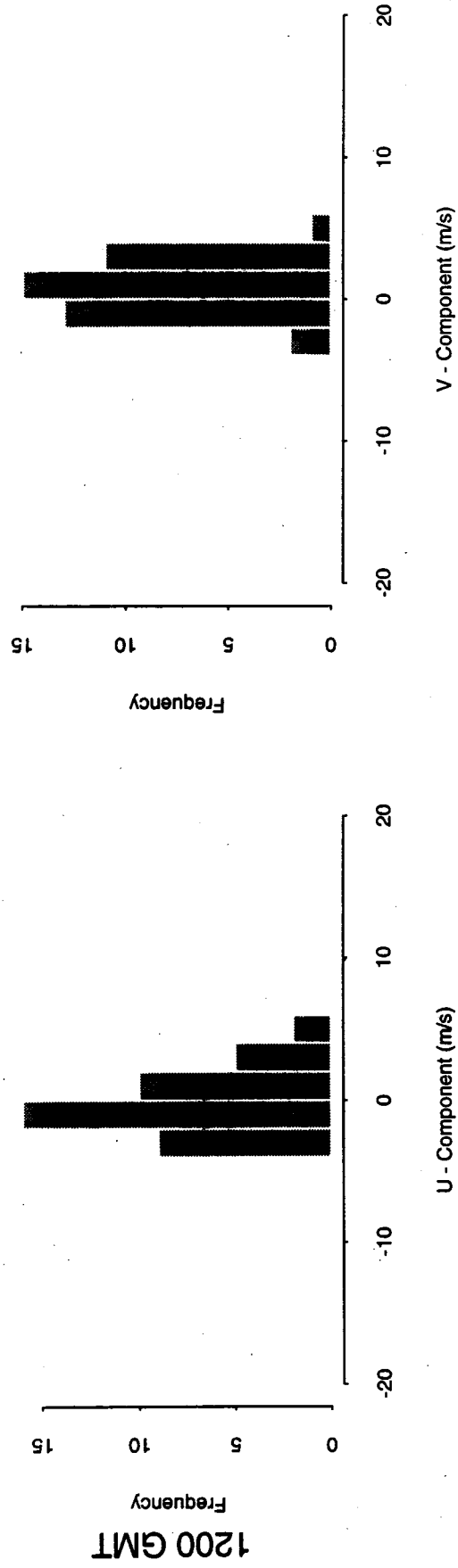


UCLR (Radiosonde) vs LAX (Radar Wind Profiler), Height=300M

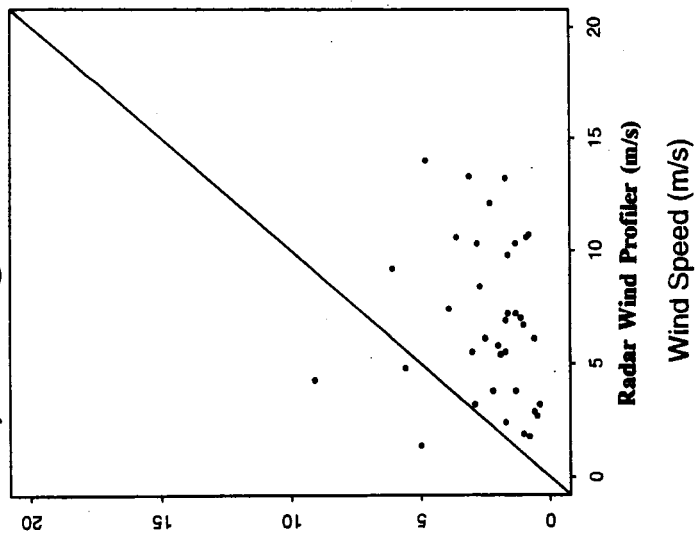
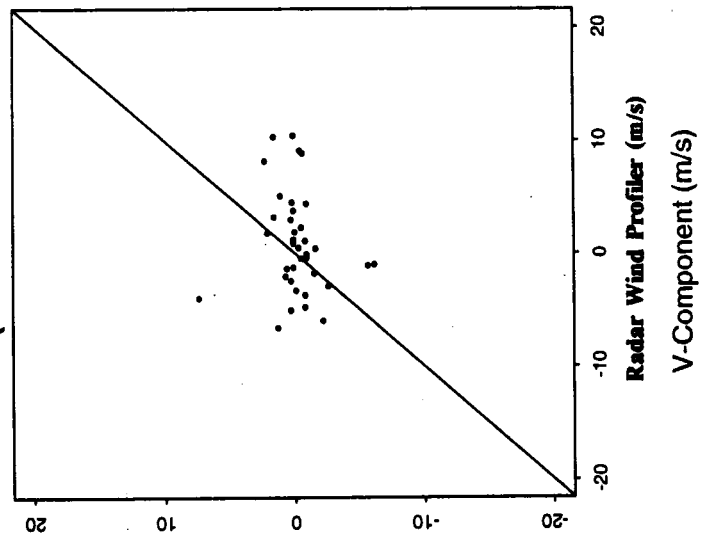
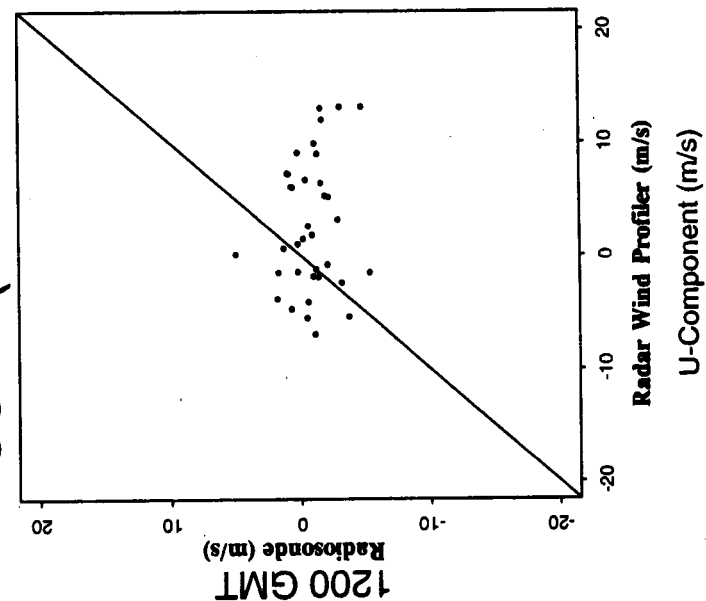


Frequency Distribution of Differences

LAX (Radar Wind Profiler) - UCLA (Radiosonde), 100M

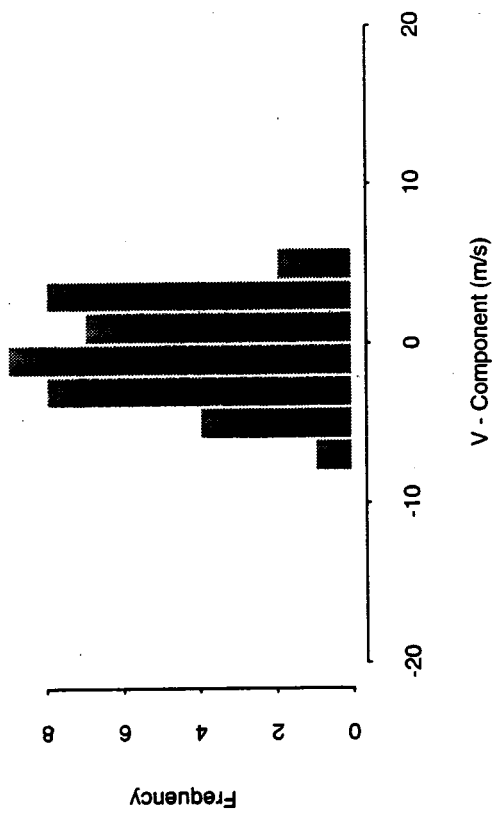
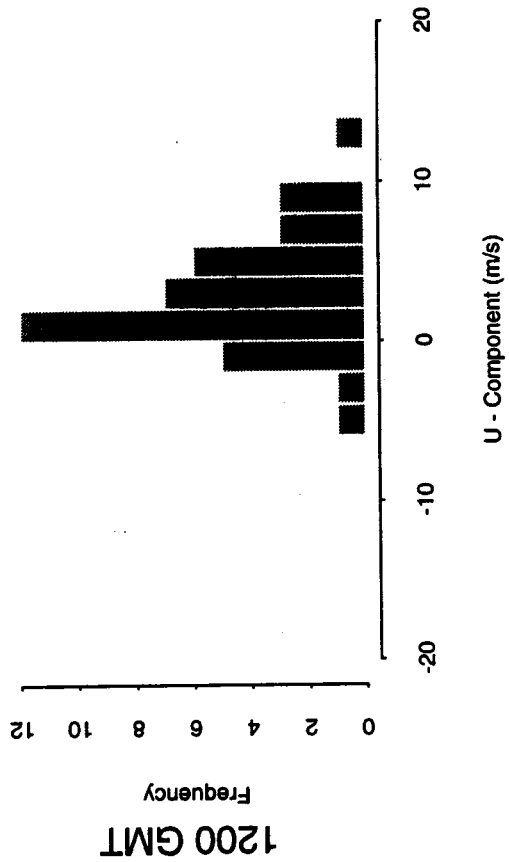


UCLR (Radiosonde) vs LAX (Radar Wind Profiler), Height=2000M



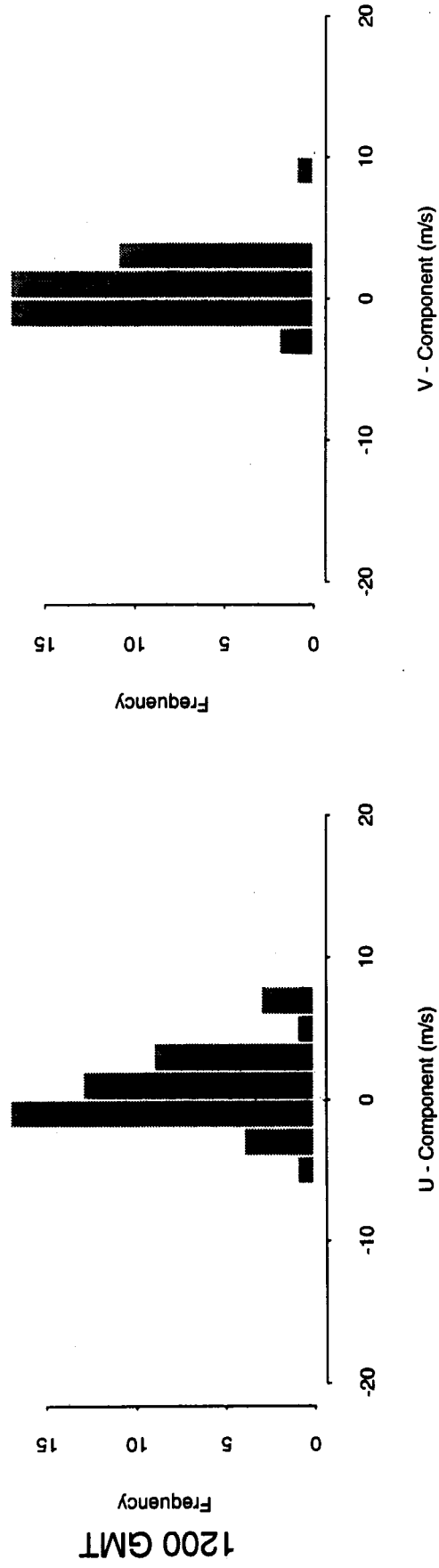
Frequency Distribution of Differences

LAX (Radar Wind Profiler) - UCLA (Radiosonde), 1000M



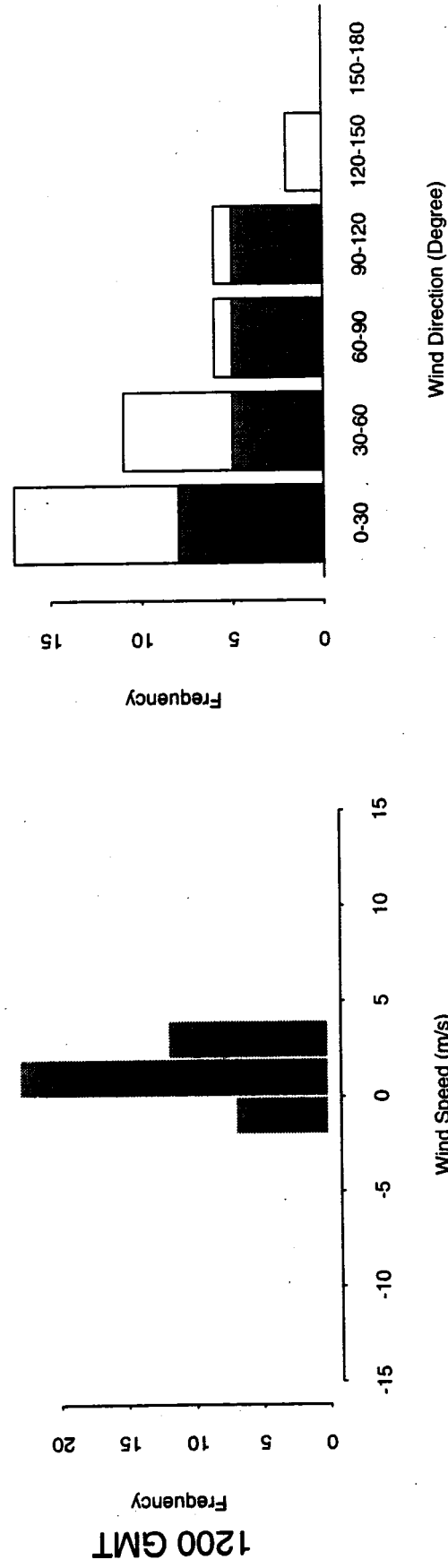
Frequency Distribution of Differences

LAX (Radar Wind Profiler) - UCLA (Radiosonde), 300M



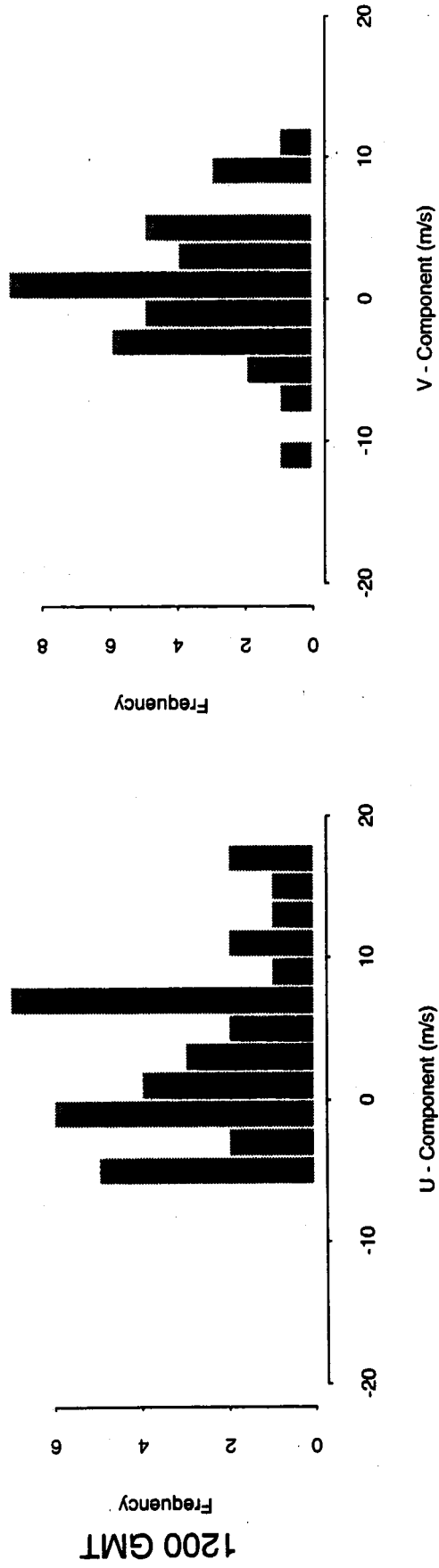
Frequency Distribution of Differences

LAX (Radar Wind Profiler) - UCLA (Radiosonde), 100M



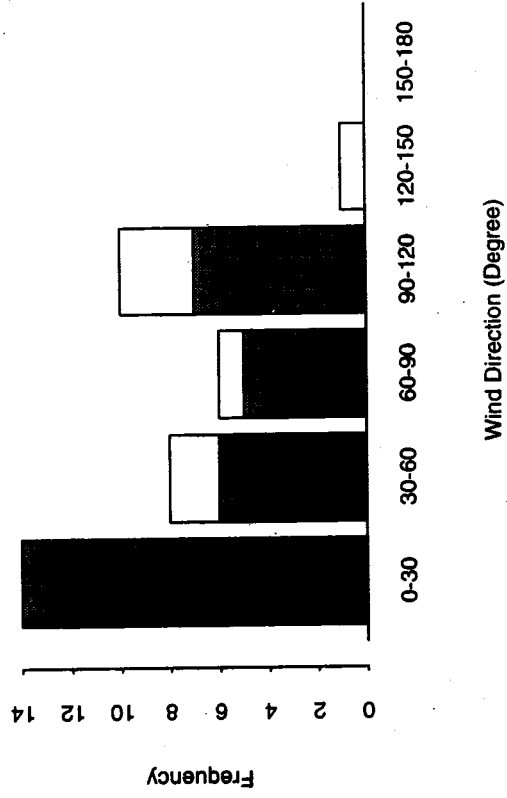
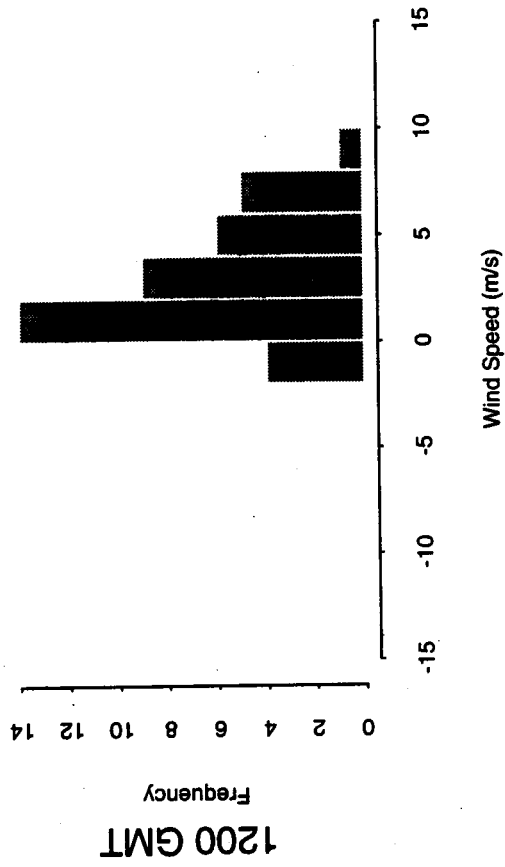
Frequency Distribution of Differences

LAX (Radar Wind Profiler) - UCLA (Radiosonde), 2000M



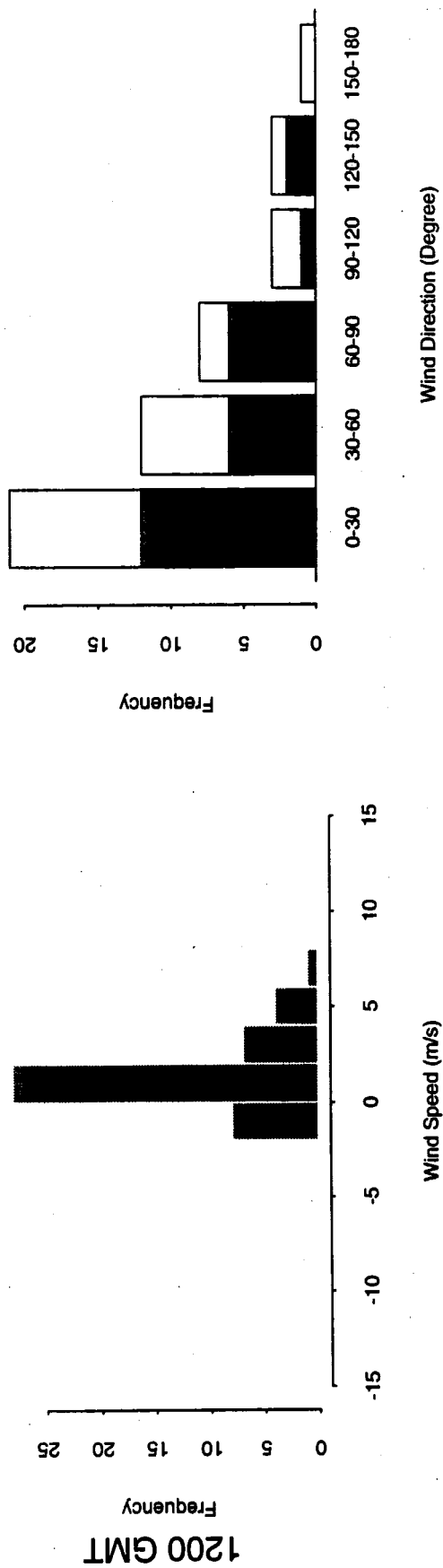
Frequency Distribution of Differences

LAX (Radar Wind Profiler) - UCLA (Radiosonde), 1000M

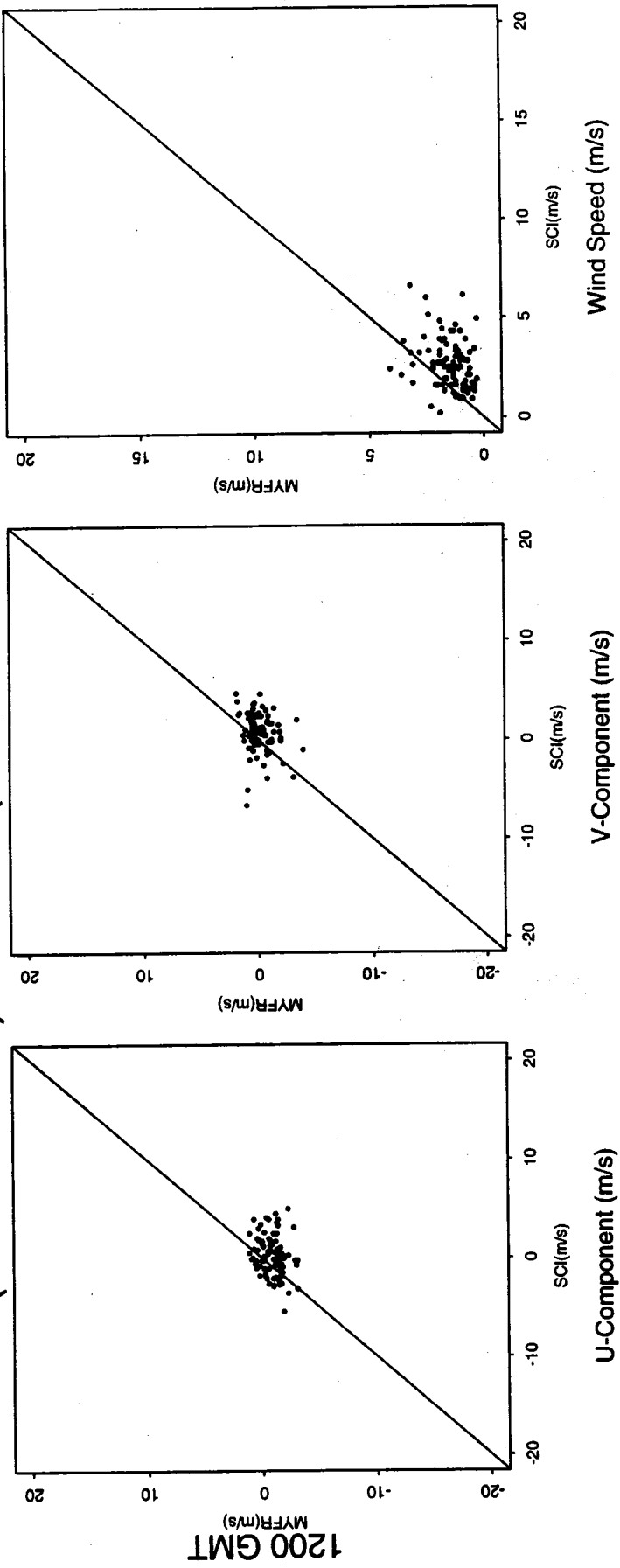


Frequency Distribution of Differences

LAX (Radar Wind Profiler) - UCLA (Radiosonde), 300M

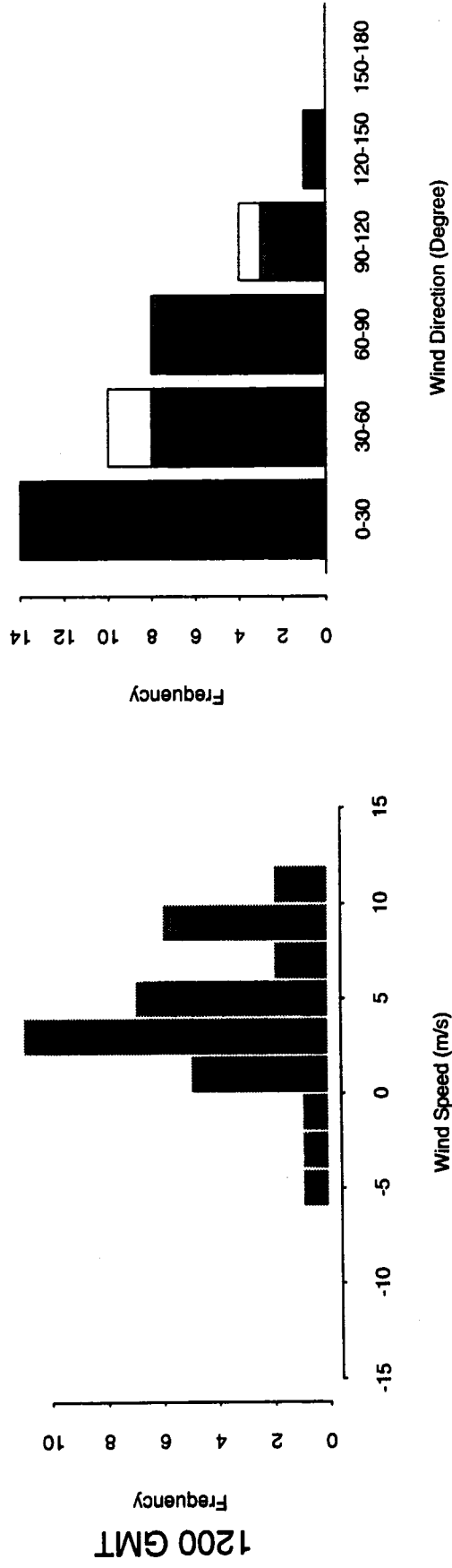


UCLA (Radiosonde) vs SBO (Radar Wind Profiler), Height=1000M



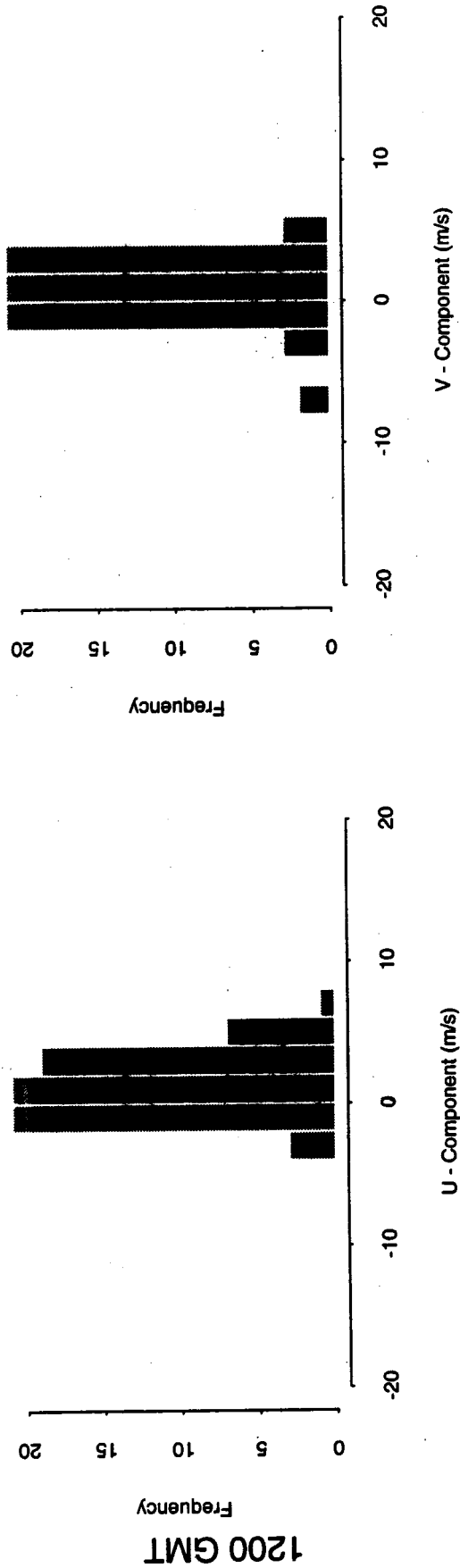
Frequency Distribution of Differences

LAX (Radar Wind Profiler) - UCLA (Radiosonde), 2000M

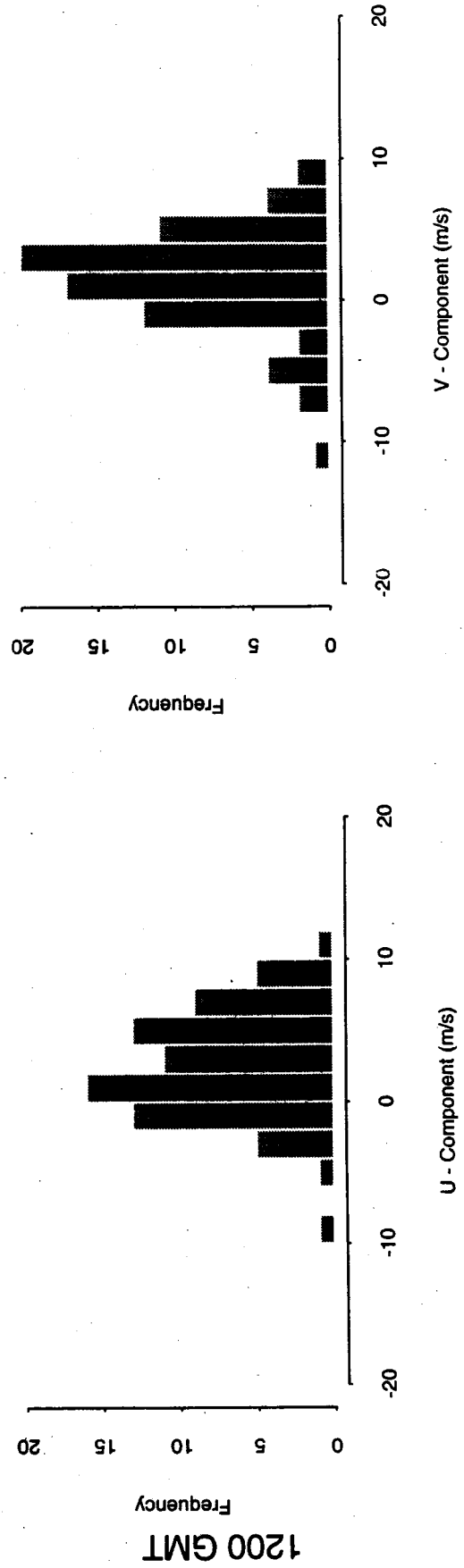


Frequency Distribution of Differences

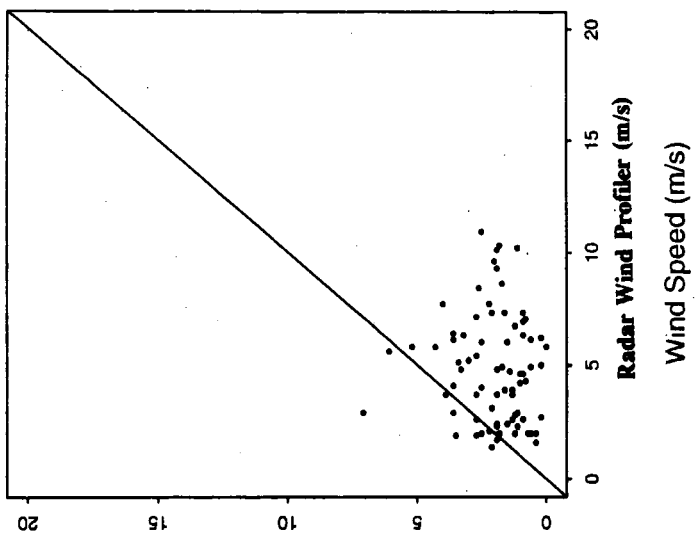
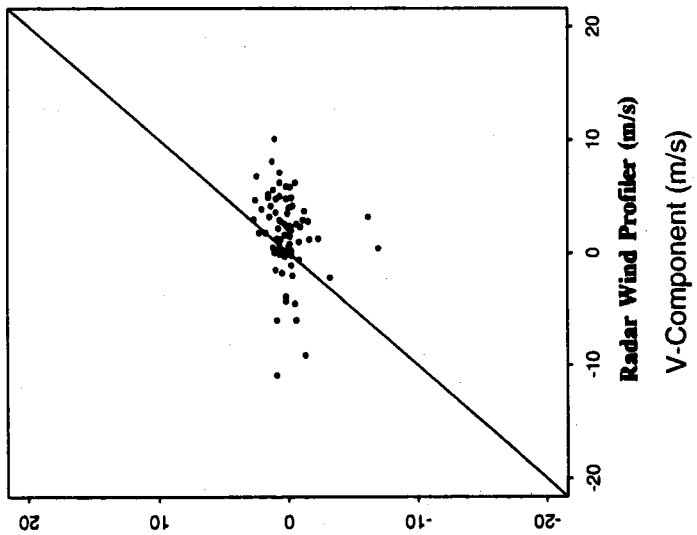
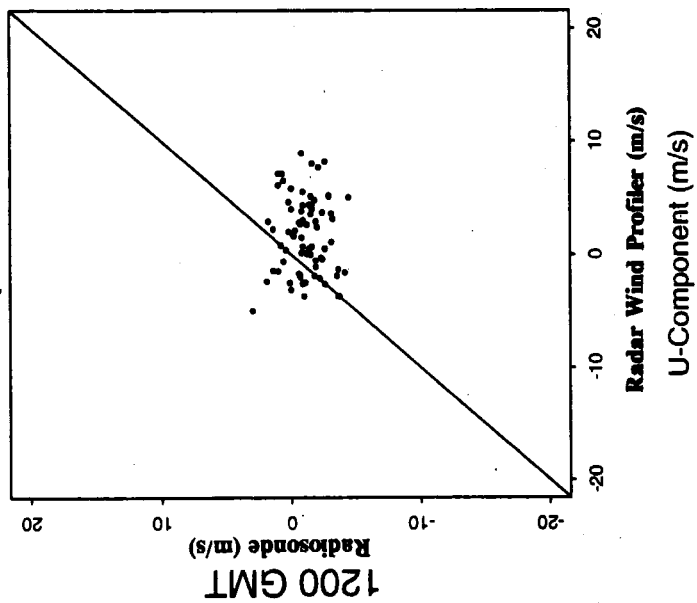
SBO (Radar Wind Profiler) - UCLA (Radiosonde), 1000M



SBO (Radar Wind Profiler) - UCLA (Radiosonde), 2000M

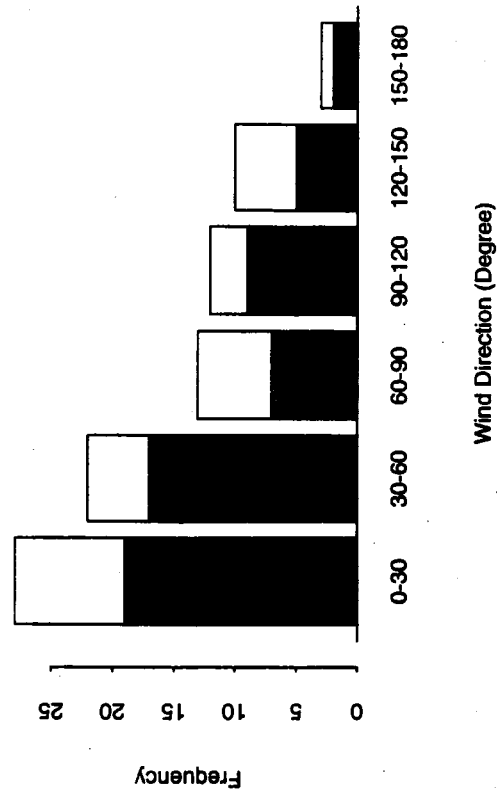
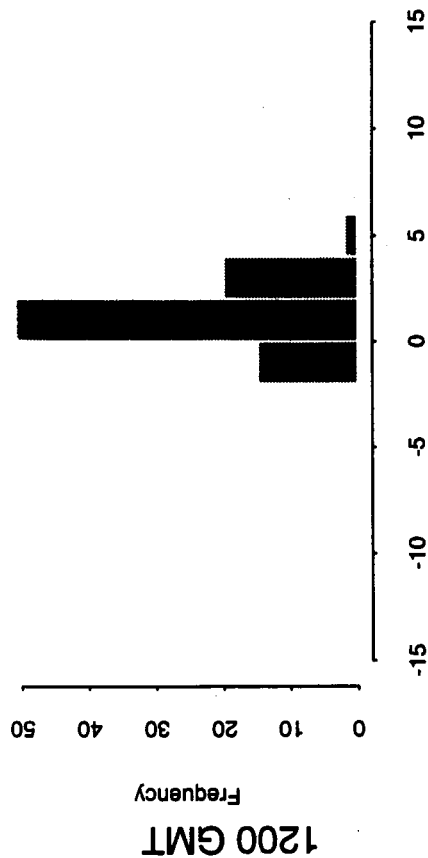


UCLA (Radiosonde) vs SBO (Radar Wind Profiler), Height=2000M

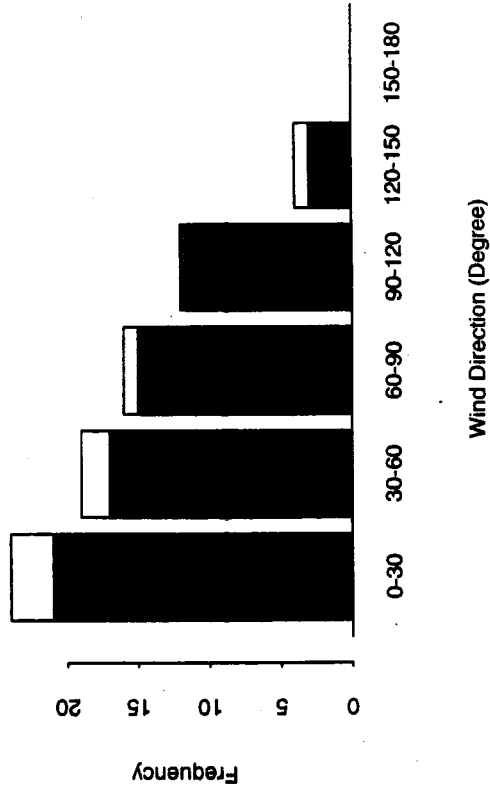
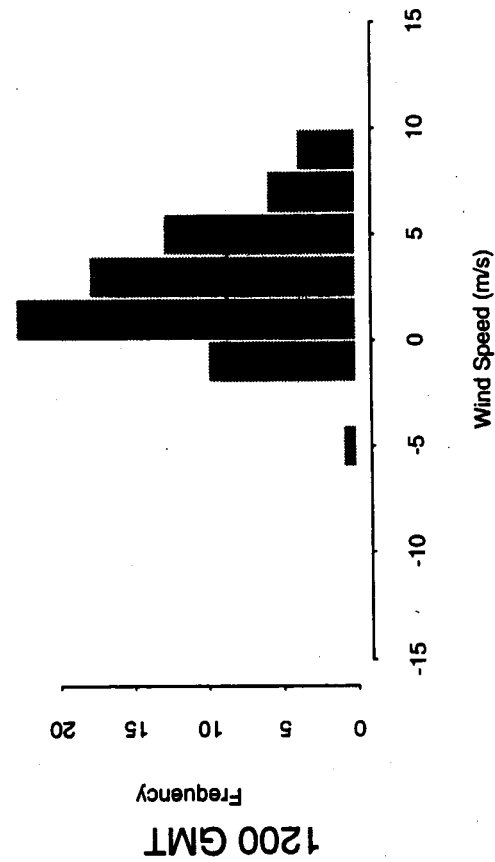


Frequency Distribution of Differences

SBO (Radar Wind Profiler) - UCLA (Radiosonde), 1000M



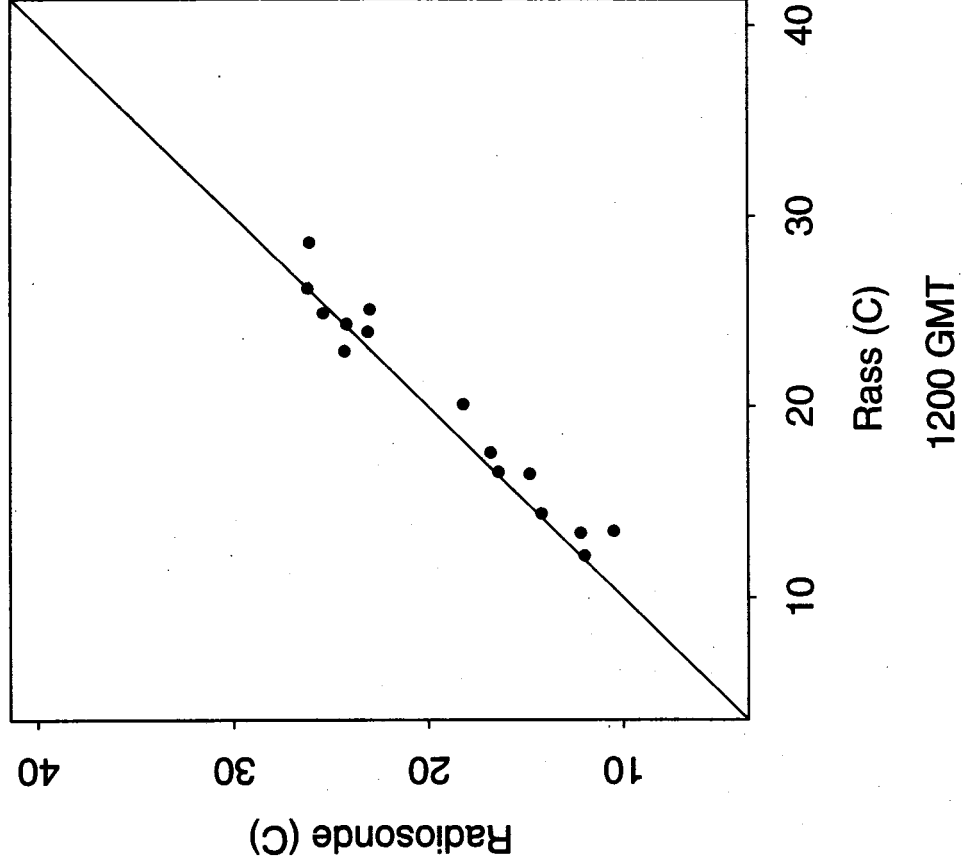
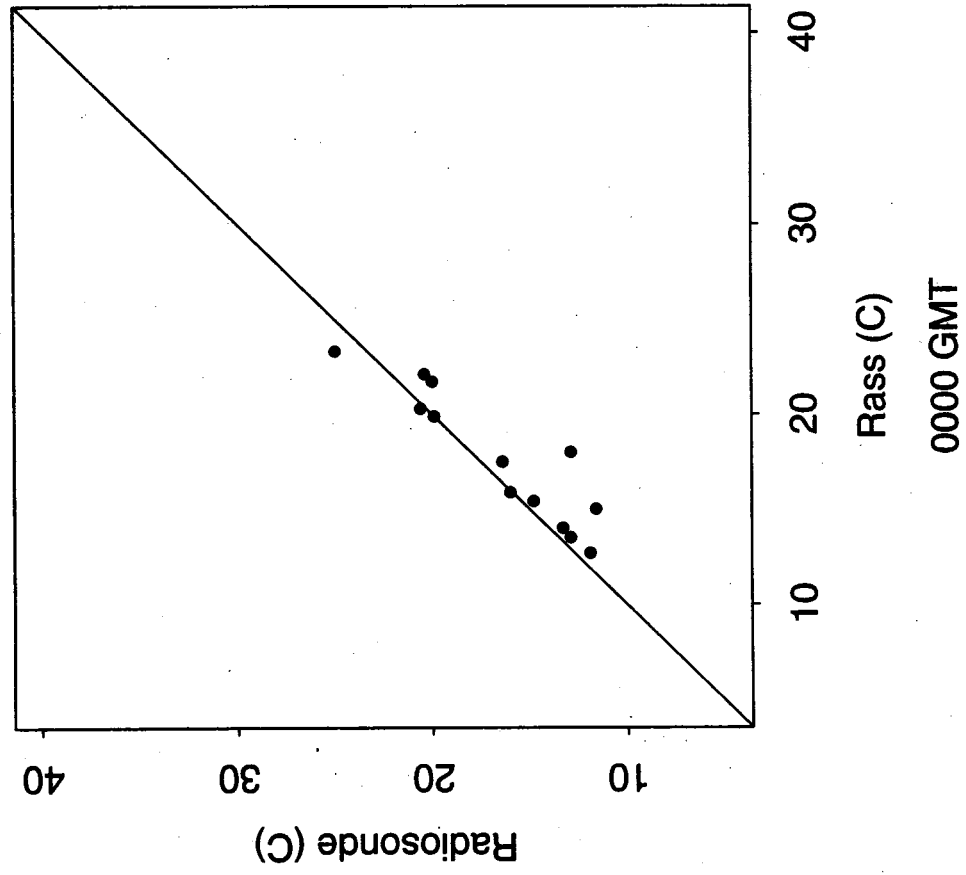
SBO (Radar Wind Profiler) - UCLA (Radiosonde), 2000M



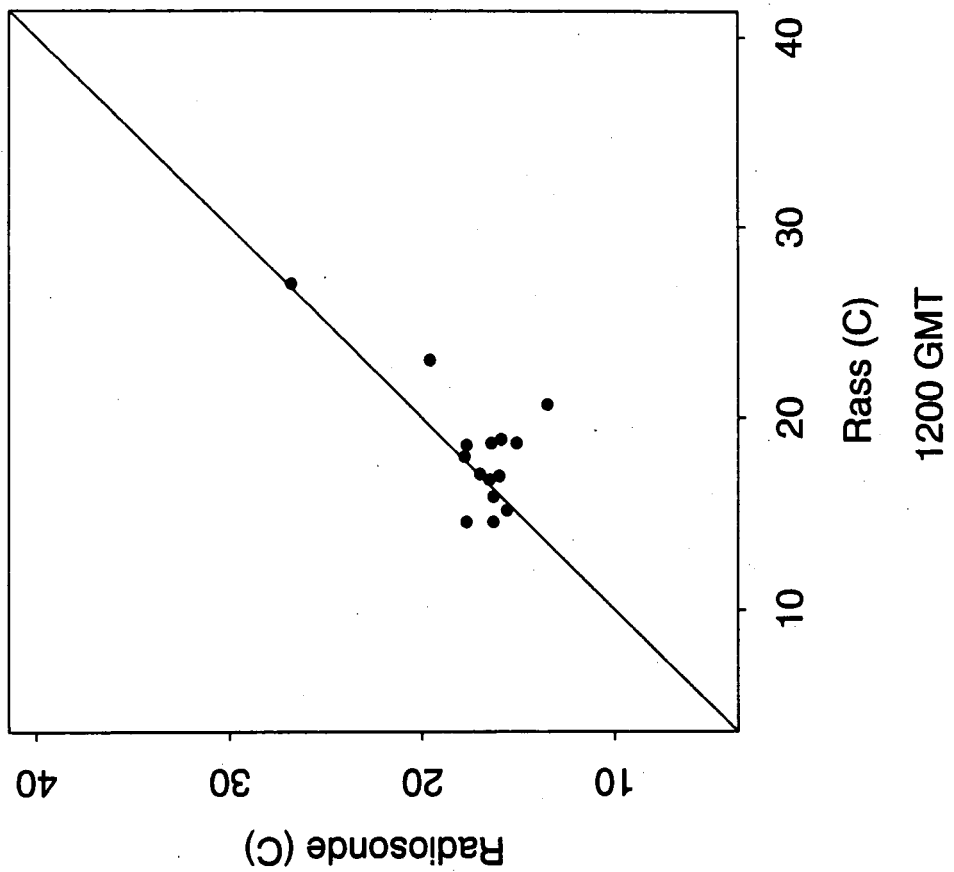
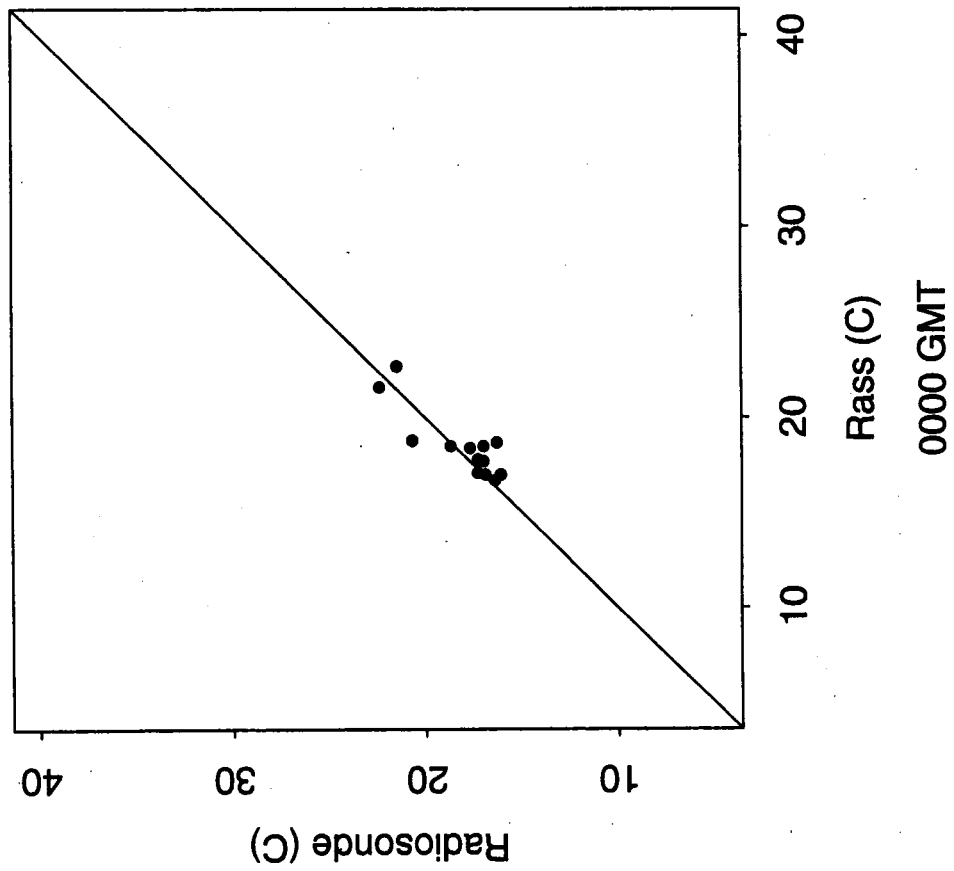
Appendix C2

**SCATTER PLOTS OF VIRTUAL TEMPERATURE FOR RASS AND
RADIOSONDE SITE PAIRS AND HISTOGRAMS OF THE DIFFERENCES FOR
MONITORING SITES LOCATED IN THE SOUTH COAST AIR BASIN (SOCAB)**

NTDR (Radiosonde) vs PTM (RASS), Height=1000M



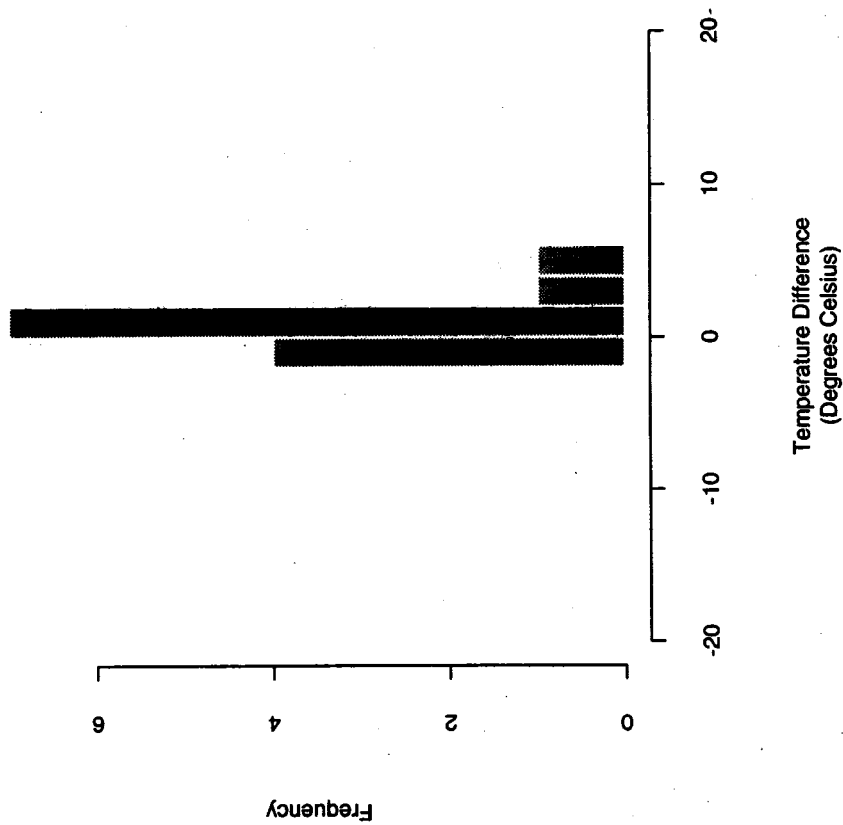
NTDR (Radiosonde) vs PTM (RASS), Height=300 M



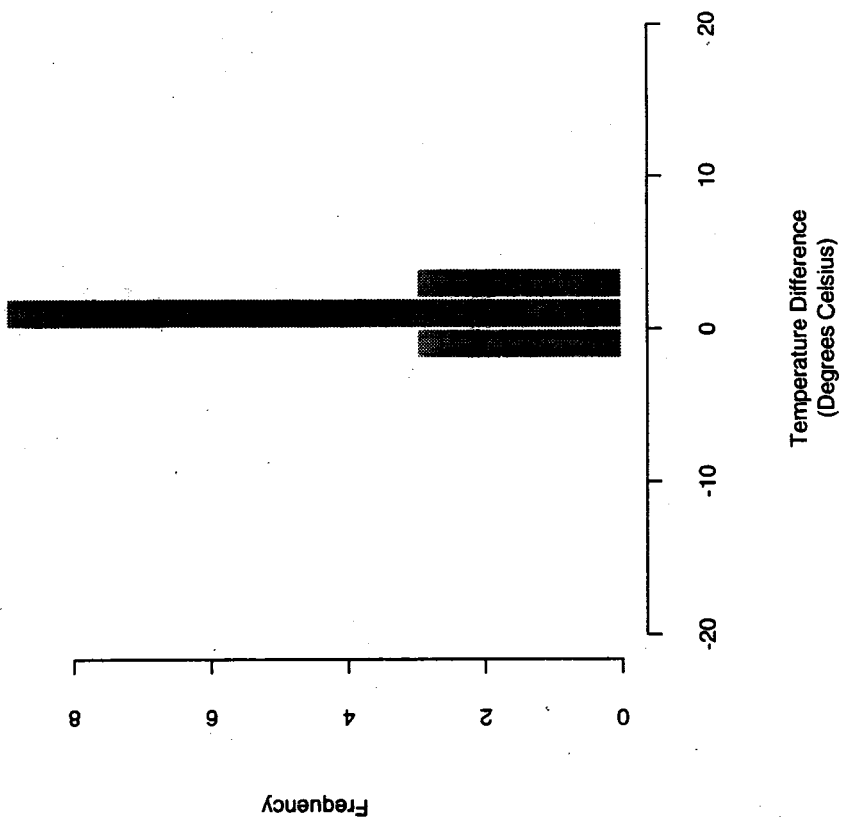
Frequency Distribution of Differences

PTM(Radar Wind Profiler) - NTDR(Radiosonde), 1000M

0000 GMT



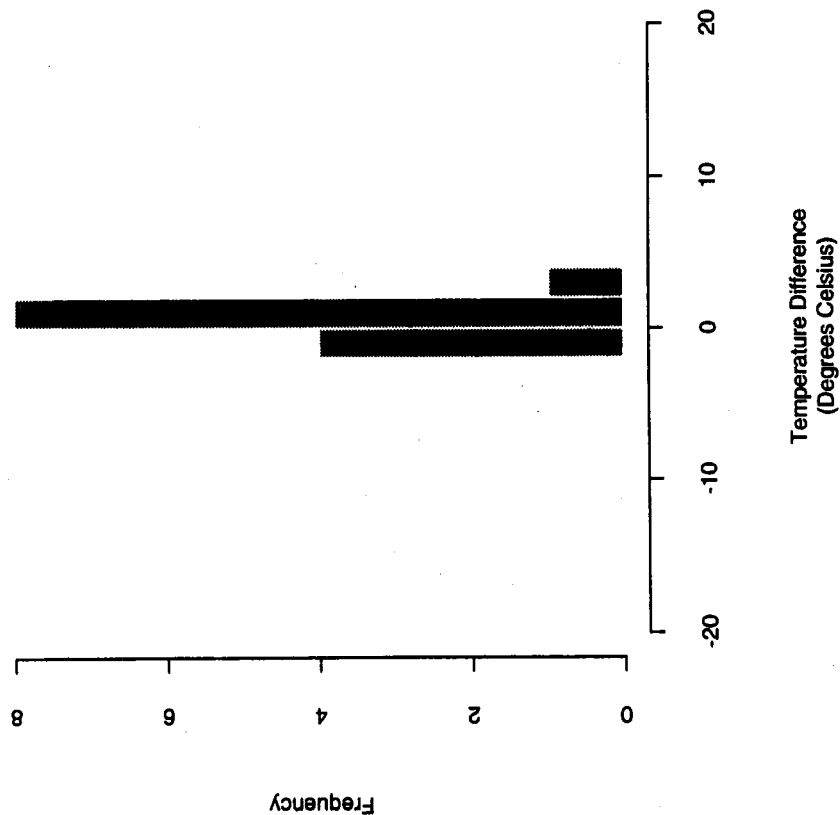
1200 GMT



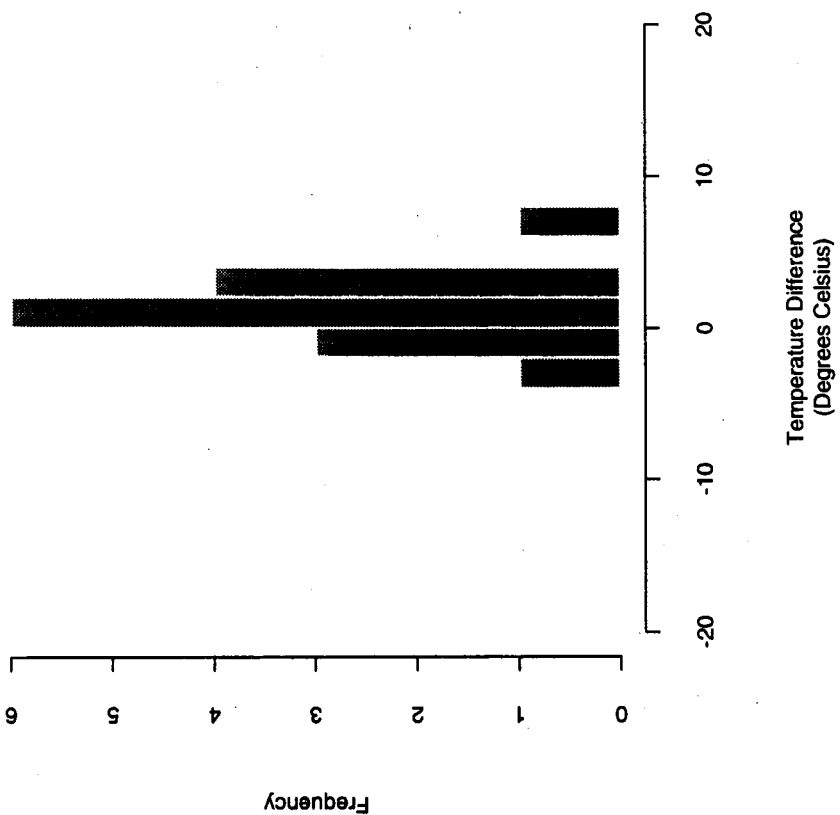
Frequency Distribution of Differences

PTM(Radar Wind Profiler) - NTDR(Radiosonde), 300M

0000 GMT

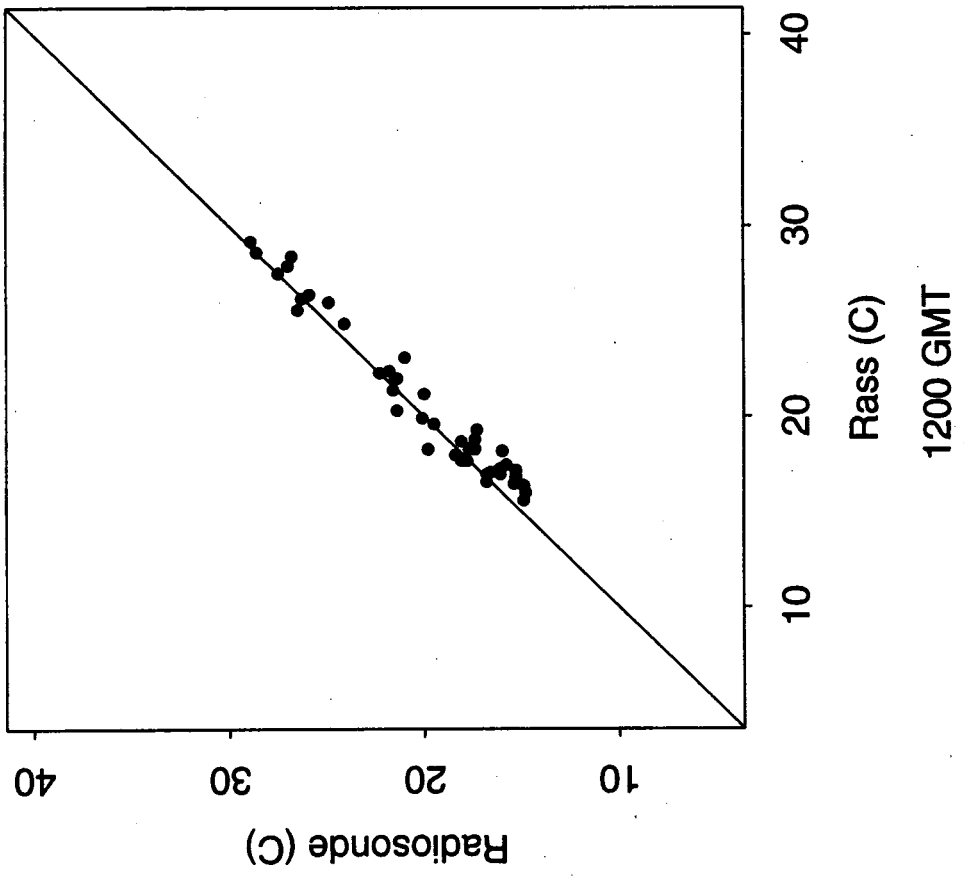


1200 GMT

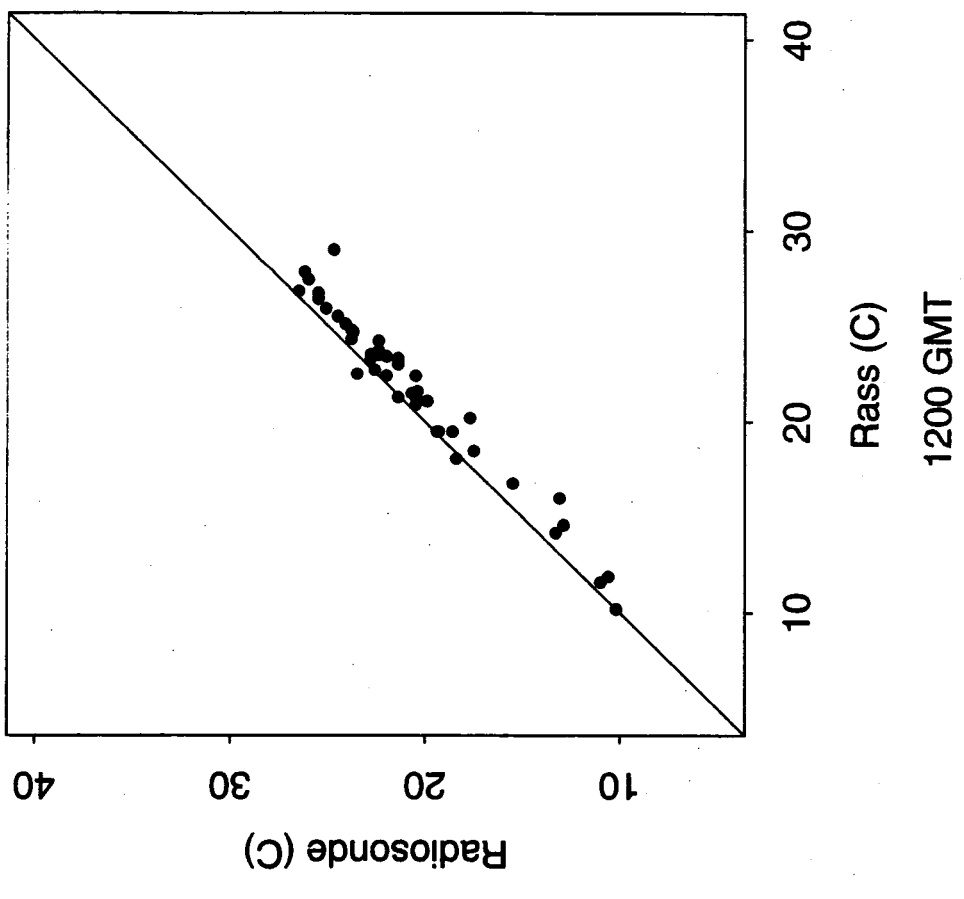


UCLA (Radiosonde) vs LAX (RASS)

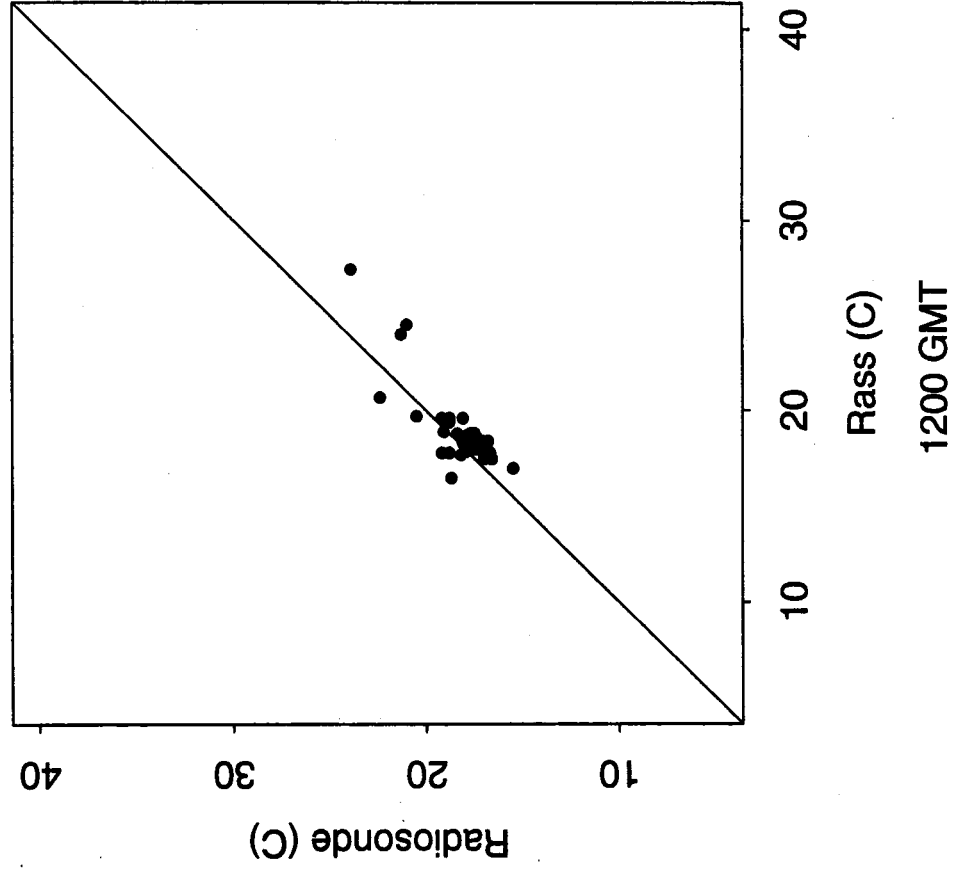
Height=300 M



Height=1000M



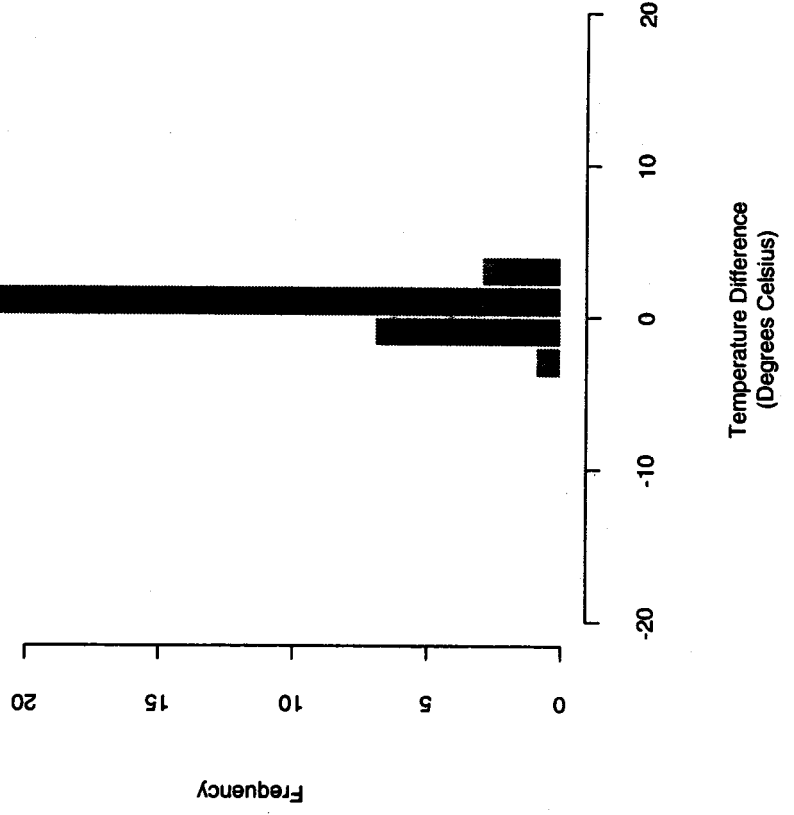
UCLA (Radiosonde) vs LAX (RASS), Height=100 M



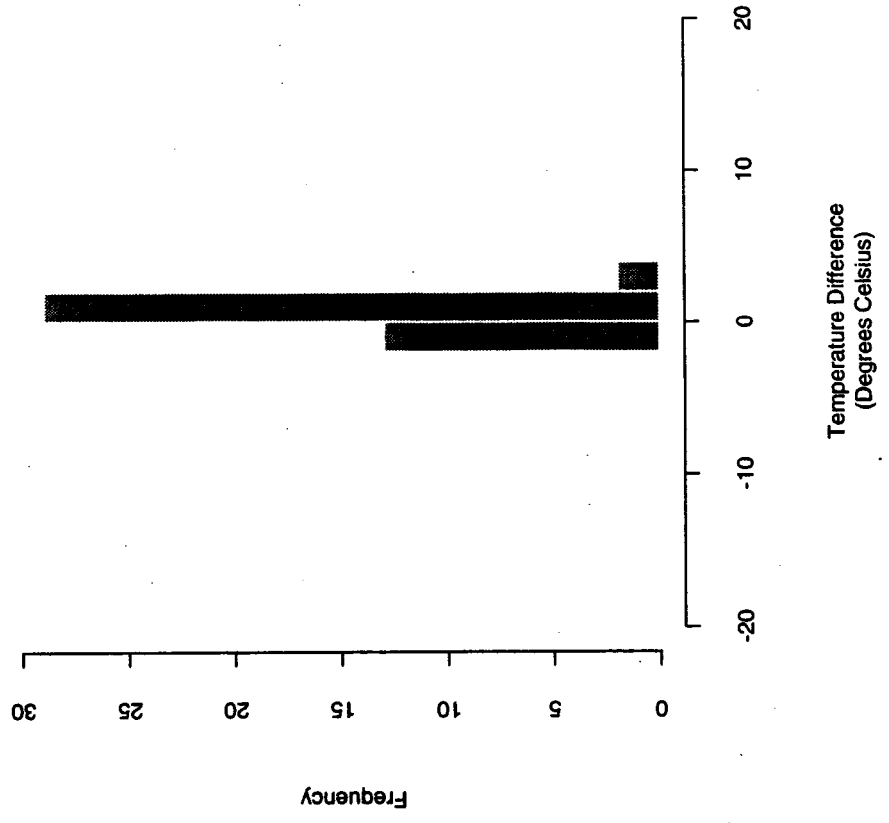
Frequency Distribution of Differences

LAX(Radar Wind Profiler) - UCLA(Radiosonde)

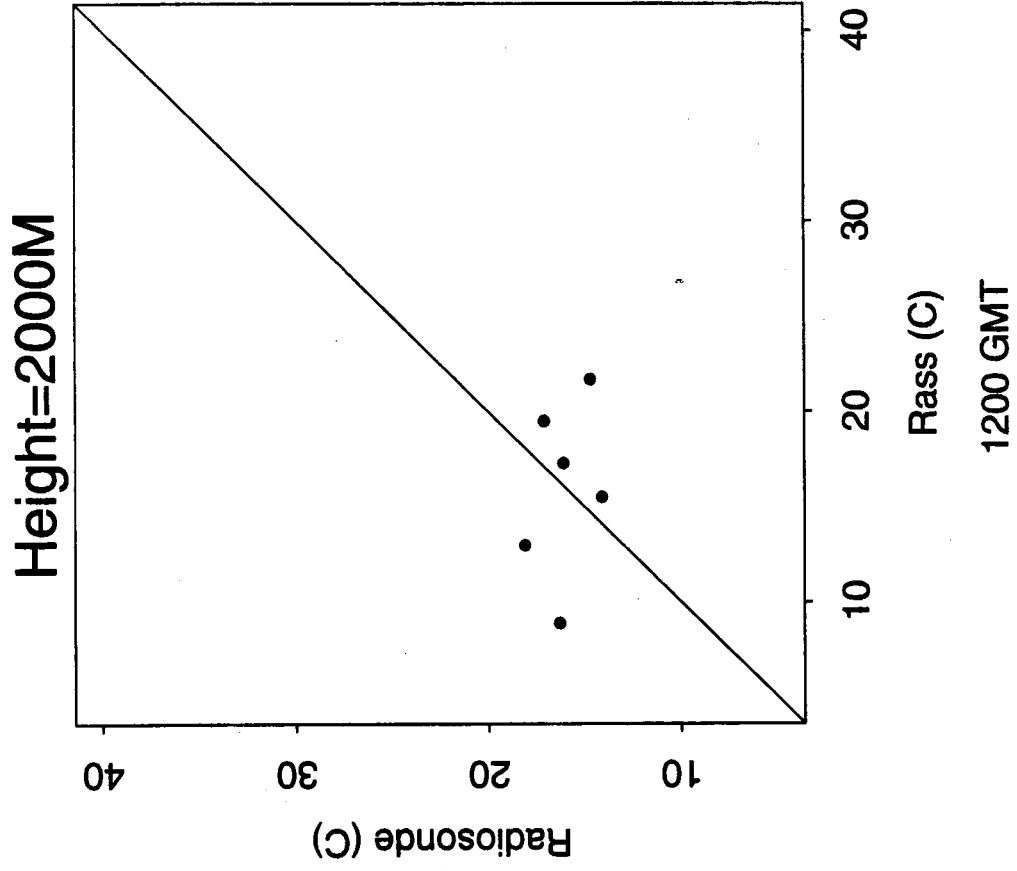
100M
1200 GMT



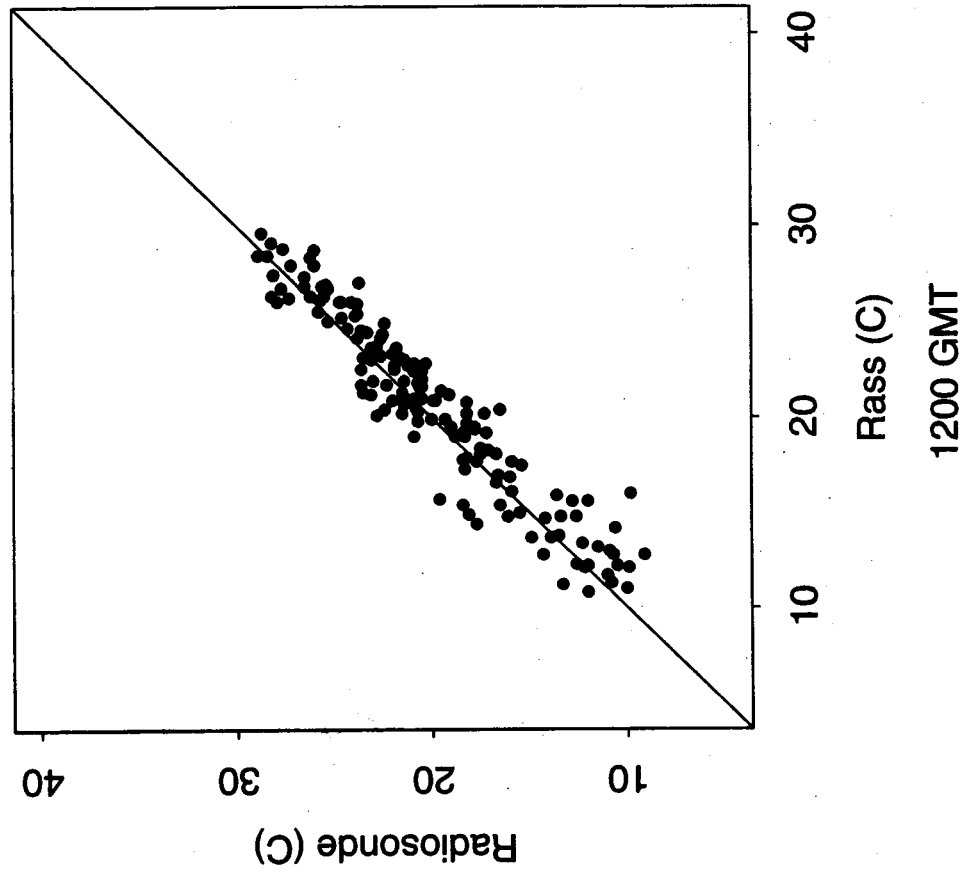
300M
1200 GMT



UCLA (Radiosonde) vs LAX (RASS)



UCLA (Radiosonde) vs SBO (RASS), Height=1000M

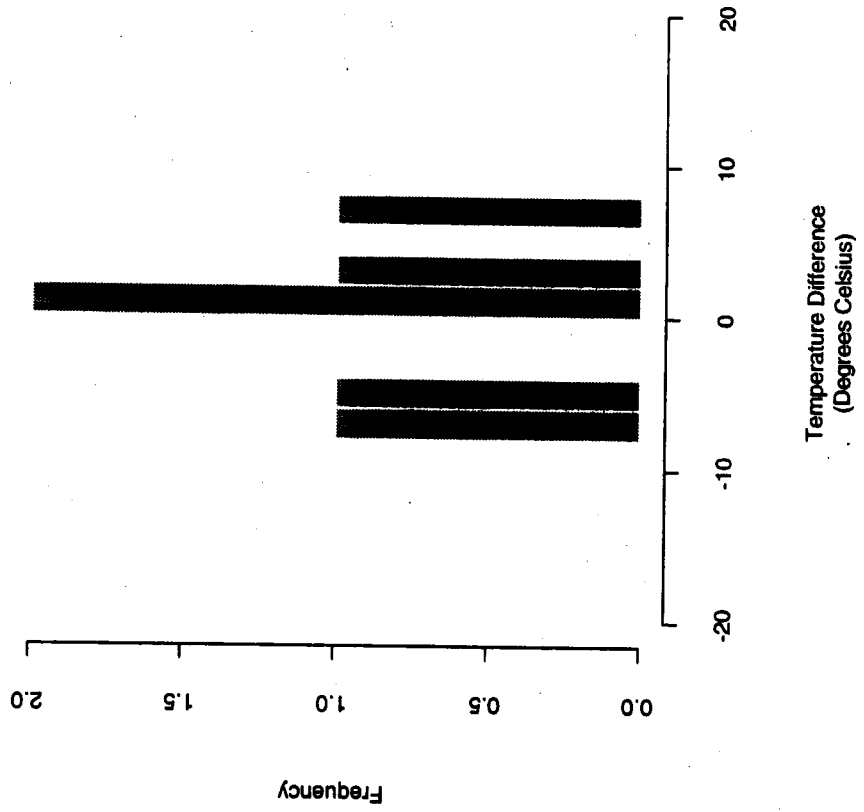
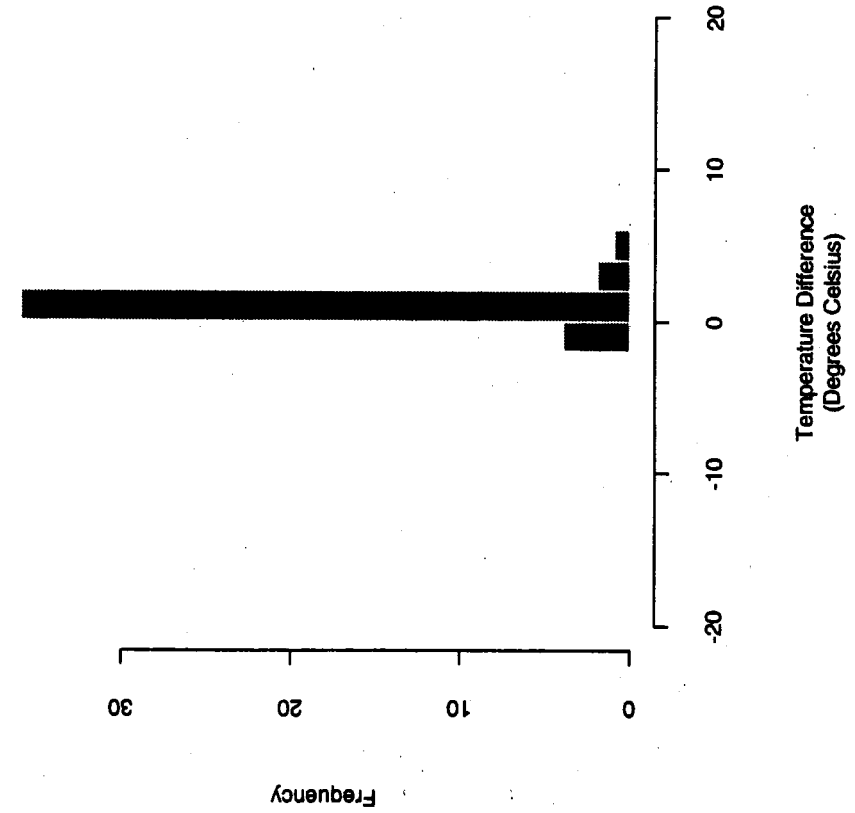


Frequency Distribution of Differences

LAX(Radar Wind Profiler) - UCLA(Radiosonde)

1000M
1200 GMT

2000M
1200 GMT

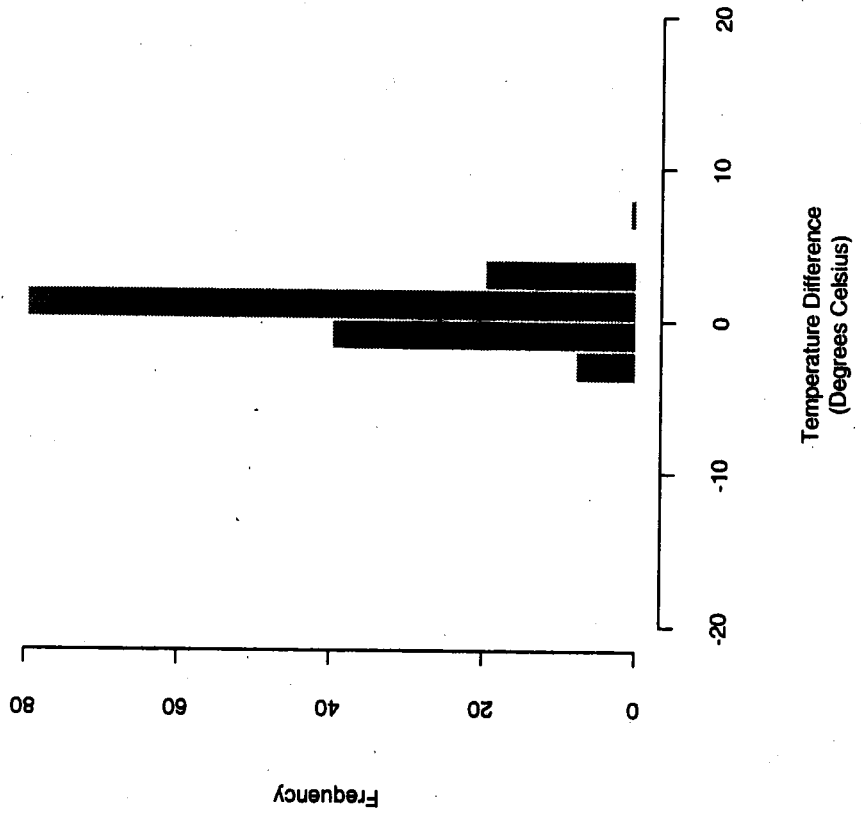


Frequency Distribution of Differences

SBO(Radar Wind Profiler) - UCLA(Radiosonde)

1000M

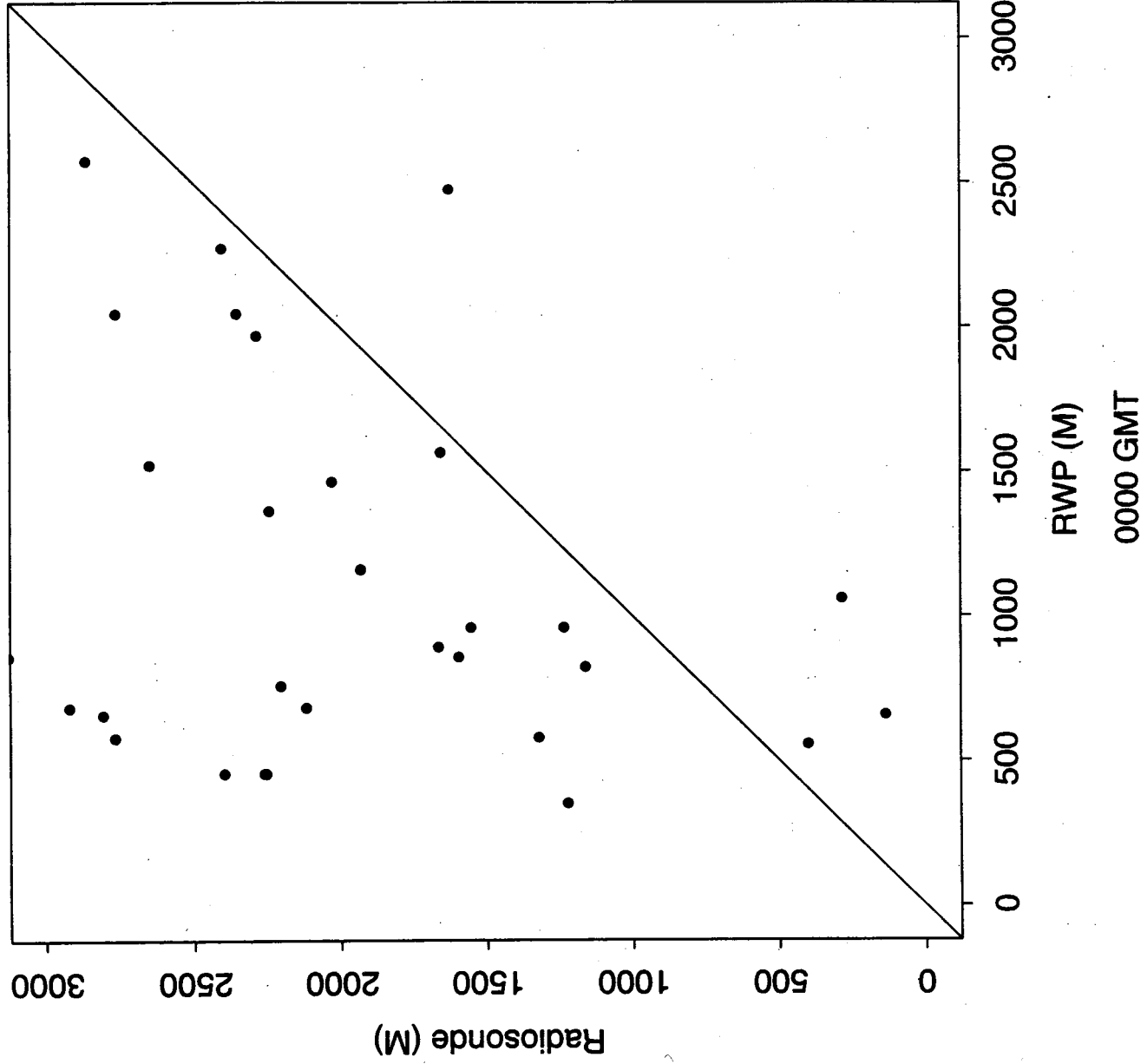
1200 GMT



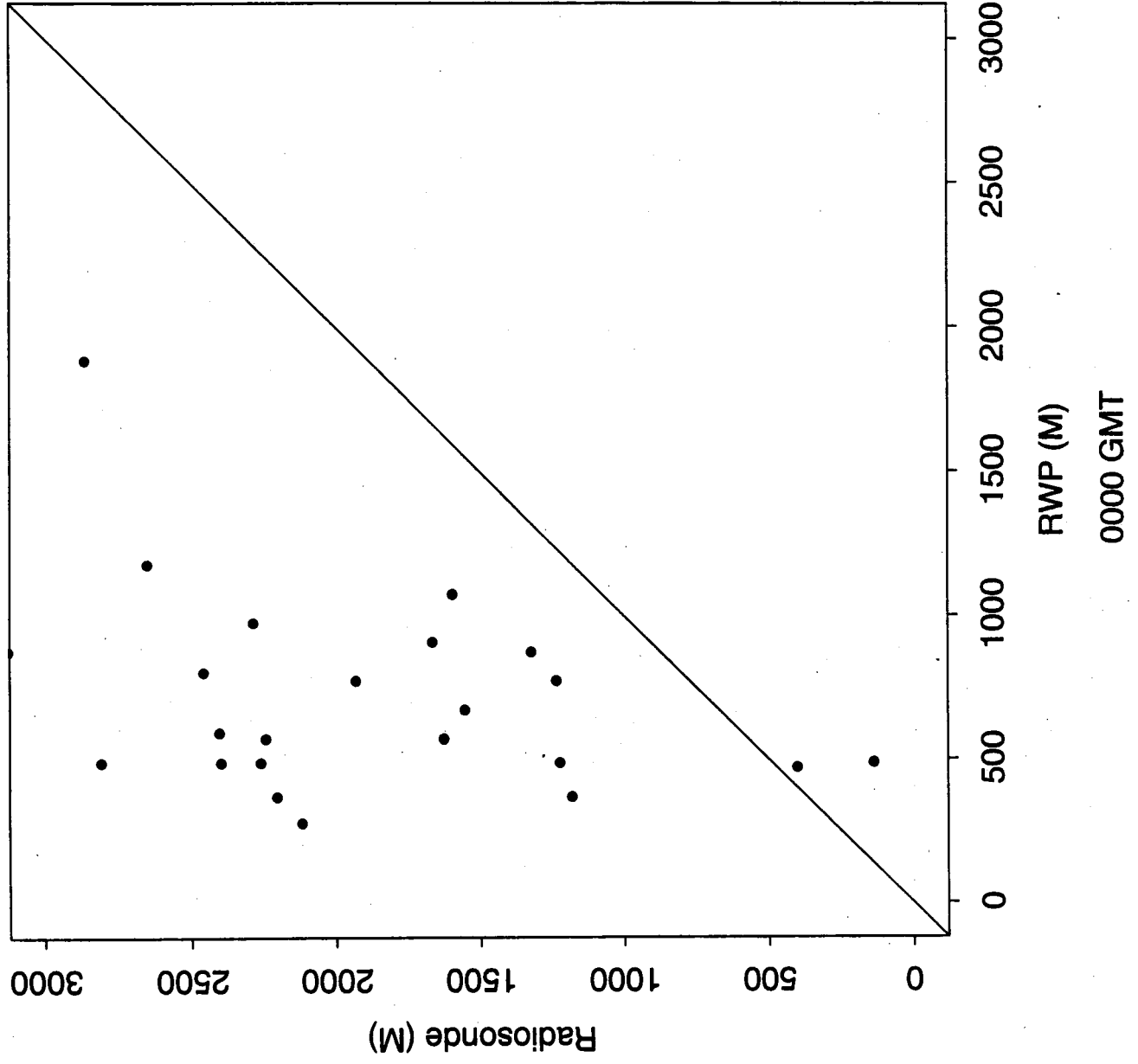
Appendix D

**COMPARISON OF MIXING HEIGHTS ESTIMATED USING RADIOSONDE
DATA WITH THE C_n^2 (REFRACTIVE INDEX) DERIVED VALUES**

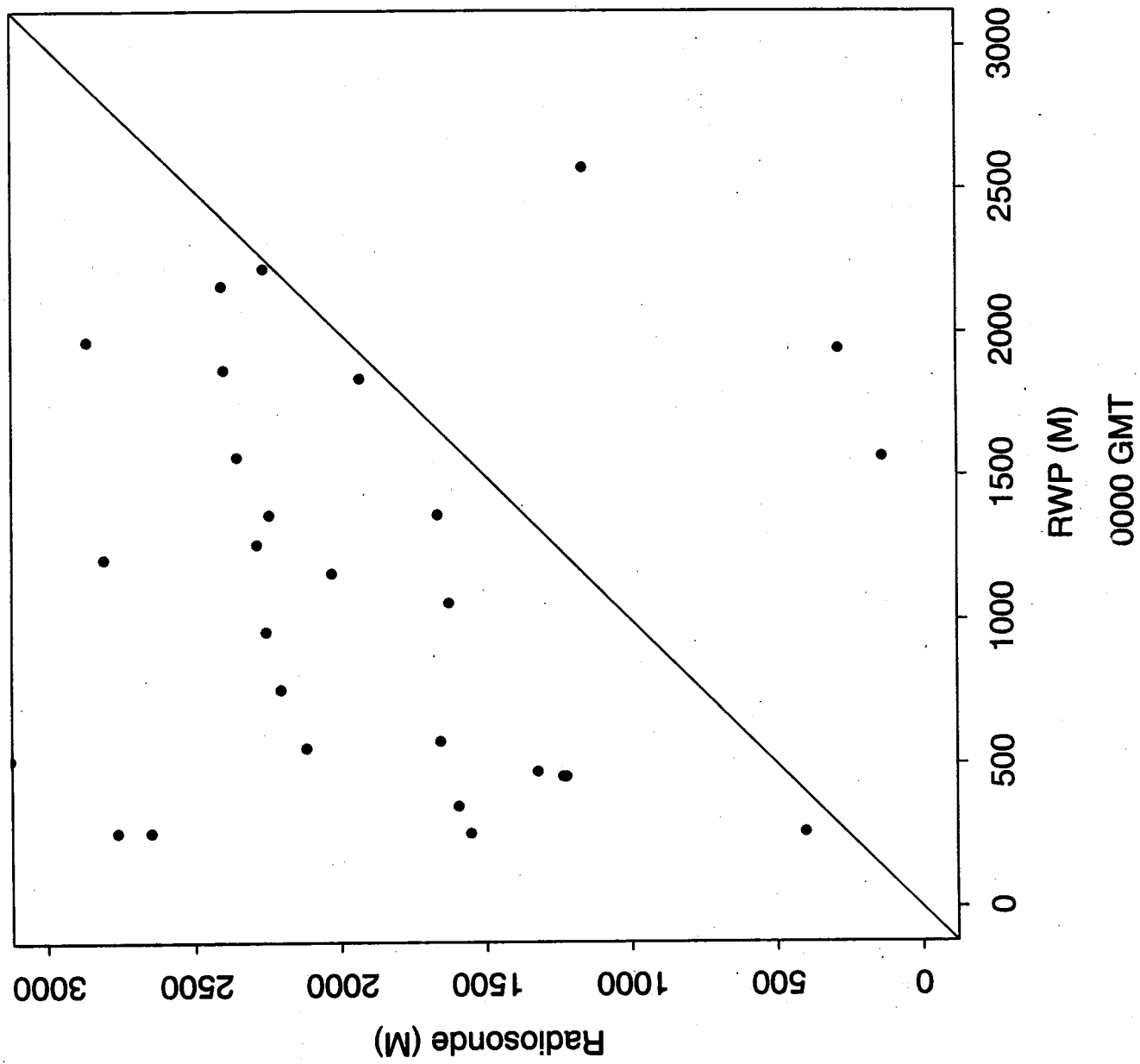
EDWR (Radiosonde) vs BAR (RWP) Mixing Height (M)



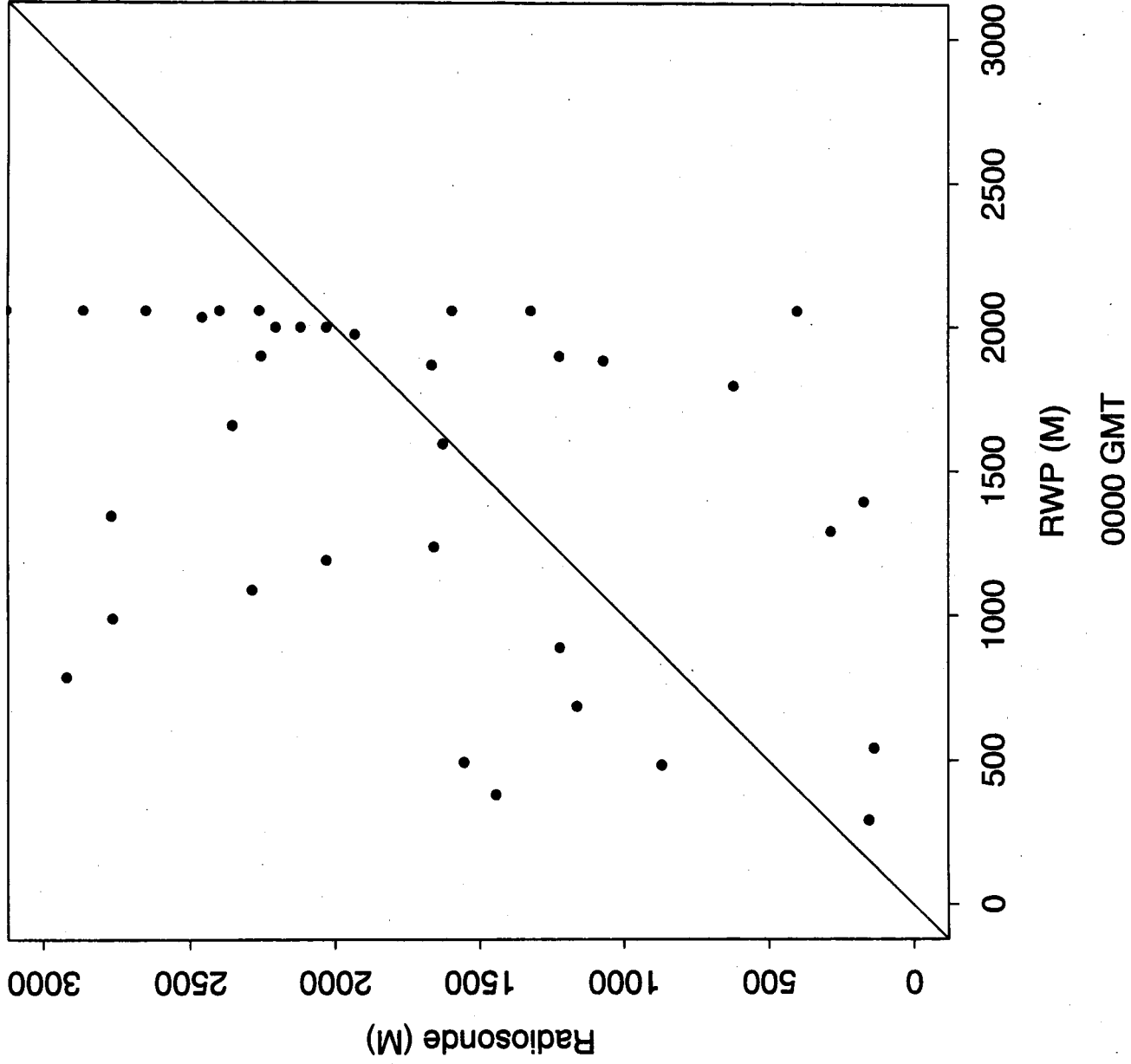
EDWR (Radiosonde) vs MOJ (RWP) Mixing Height (M)



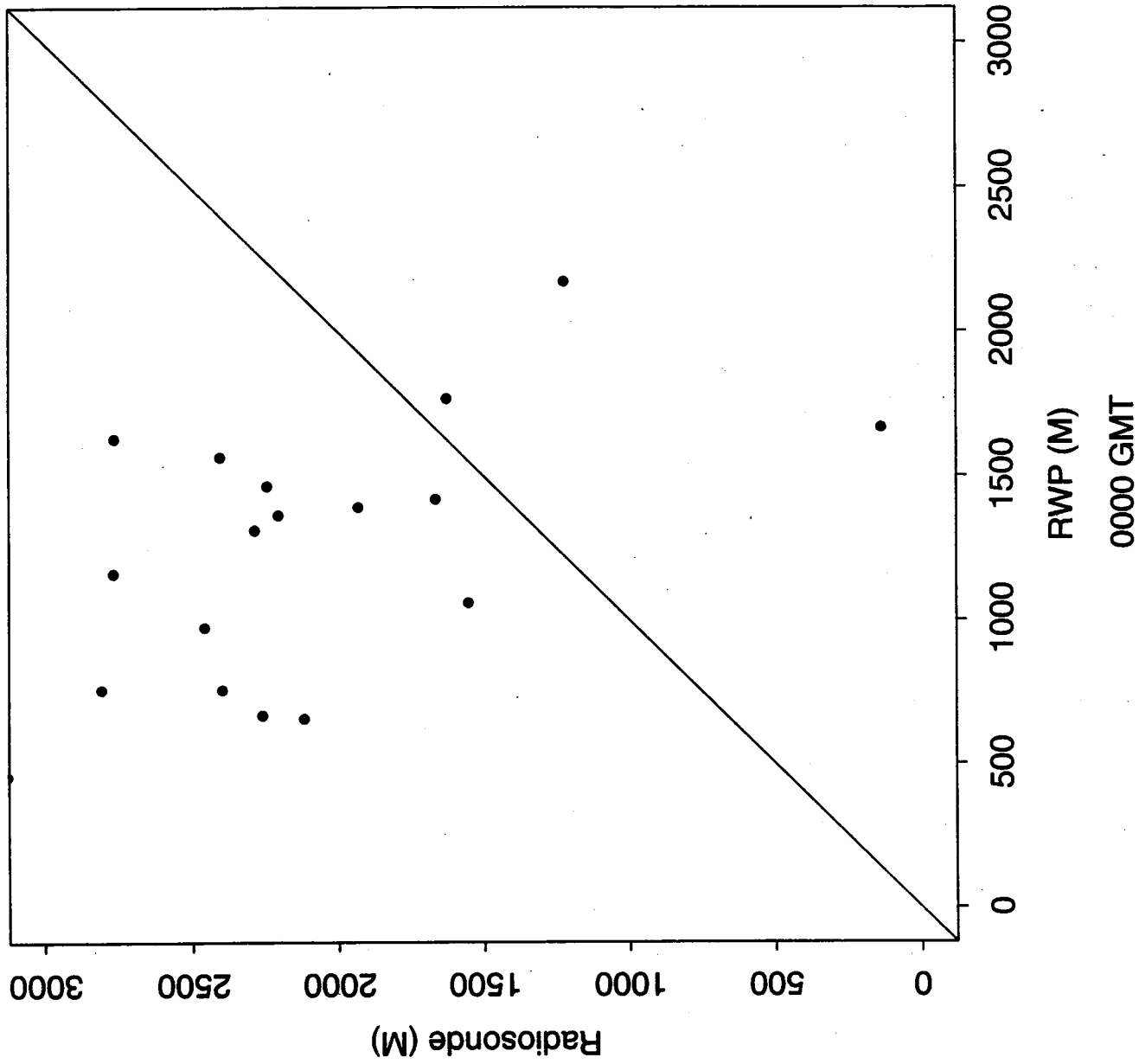
EDWR (Radiosonde) vs HES (RWP) Mixing Height (M)



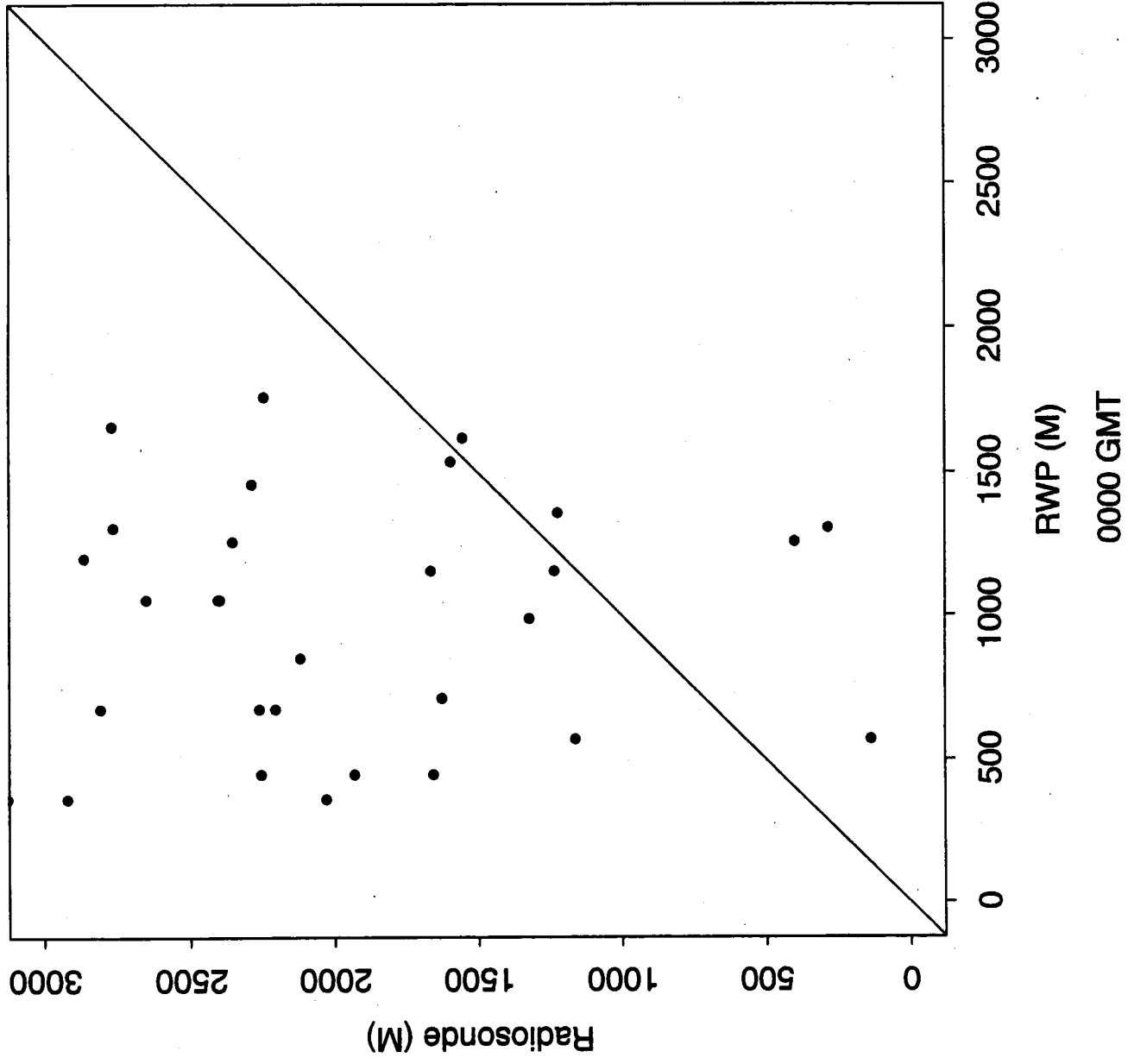
EDWR (Radiosonde) vs PAL (RWP) Mixing Height (M)



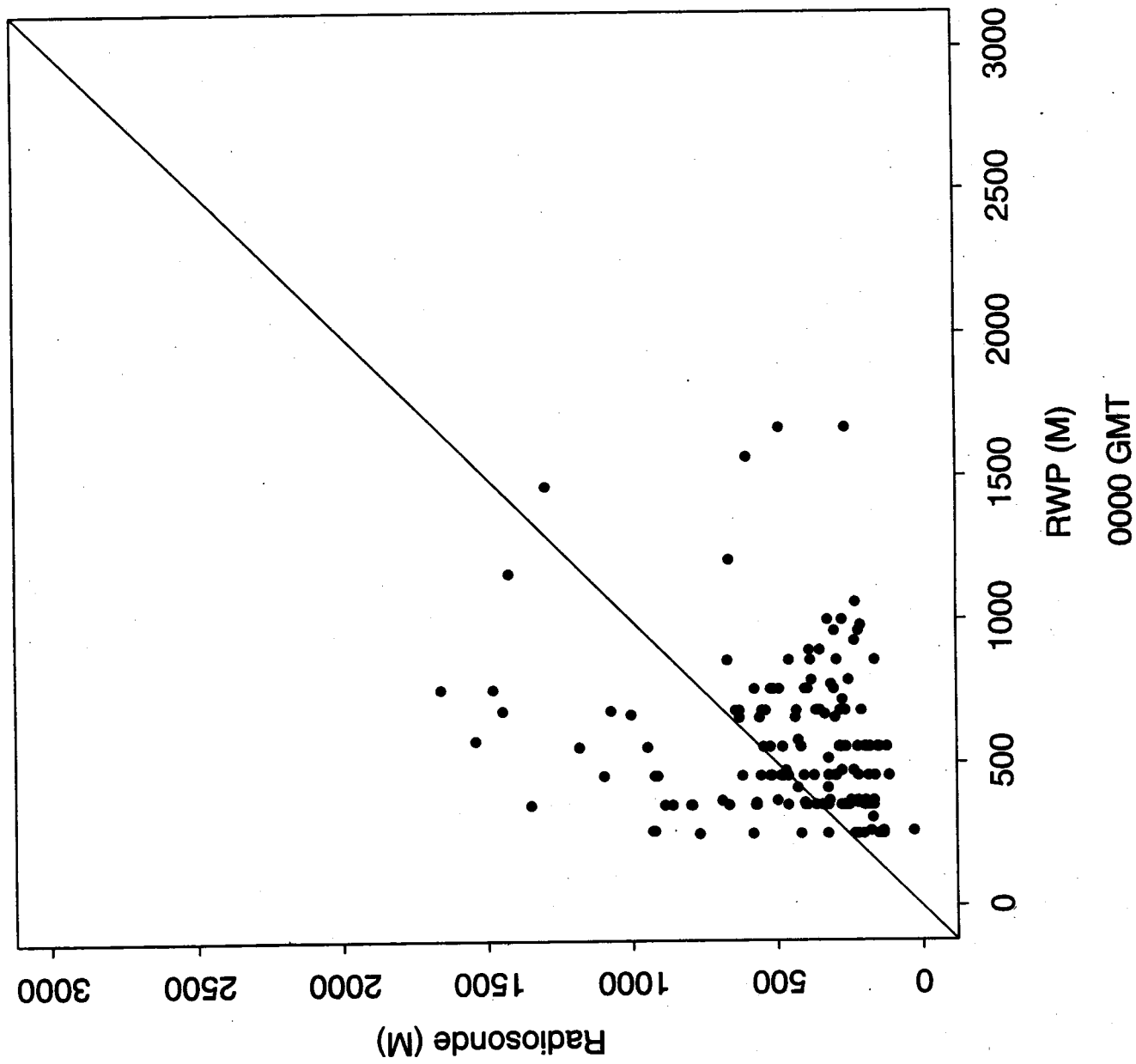
EDWR (Radiosonde) vs WWR (RWP) Mixing Height (M)



EDWR (Radiosonde) vs BAN (RWP) Mixing Height (M)



MYFR (Radiosonde) vs SDO (RWP) Mixing Height (M)



MYFR (Radiosonde) vs ELC (RWP) Mixing Height (M)

