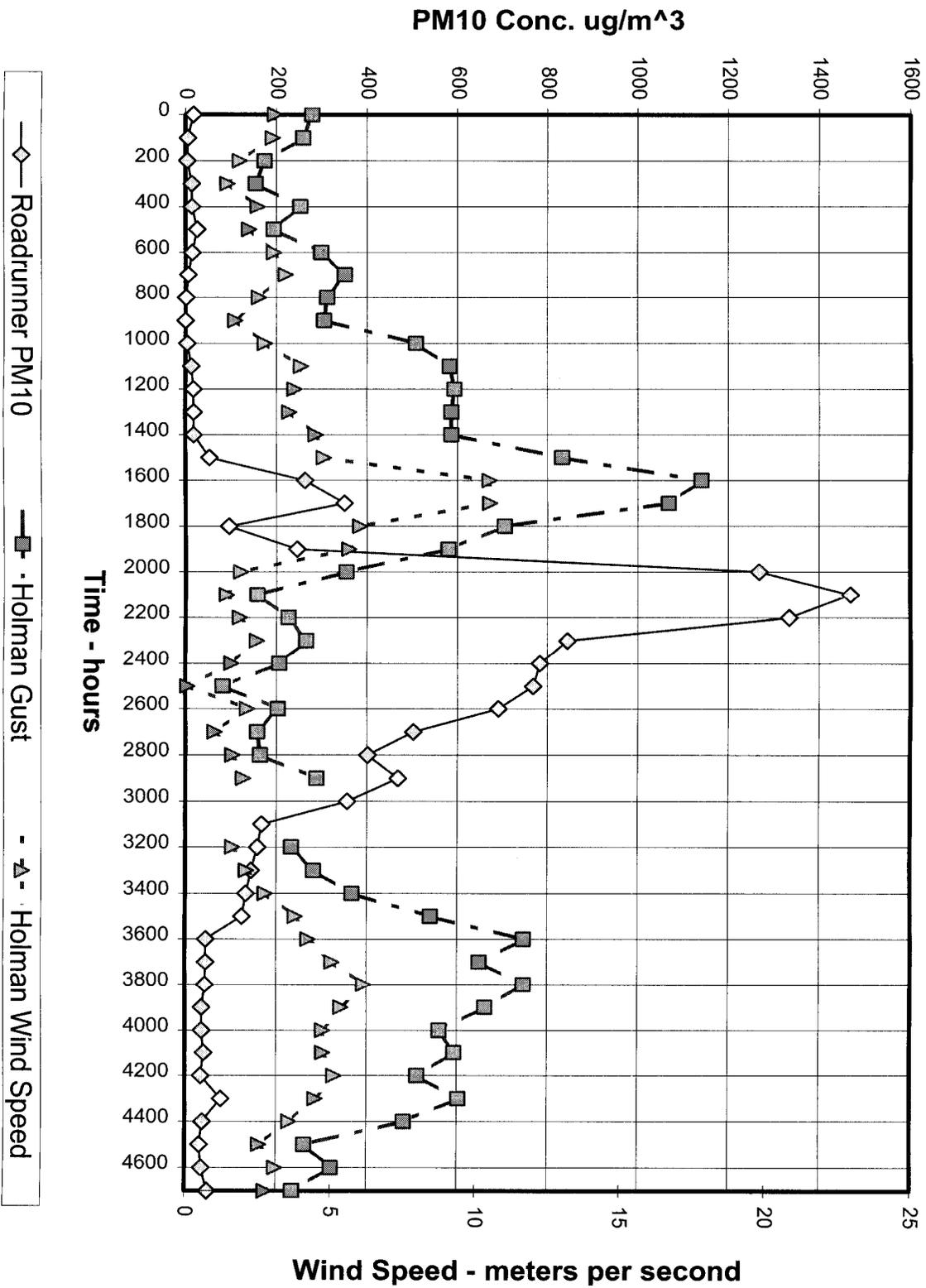

APPENDIX 2

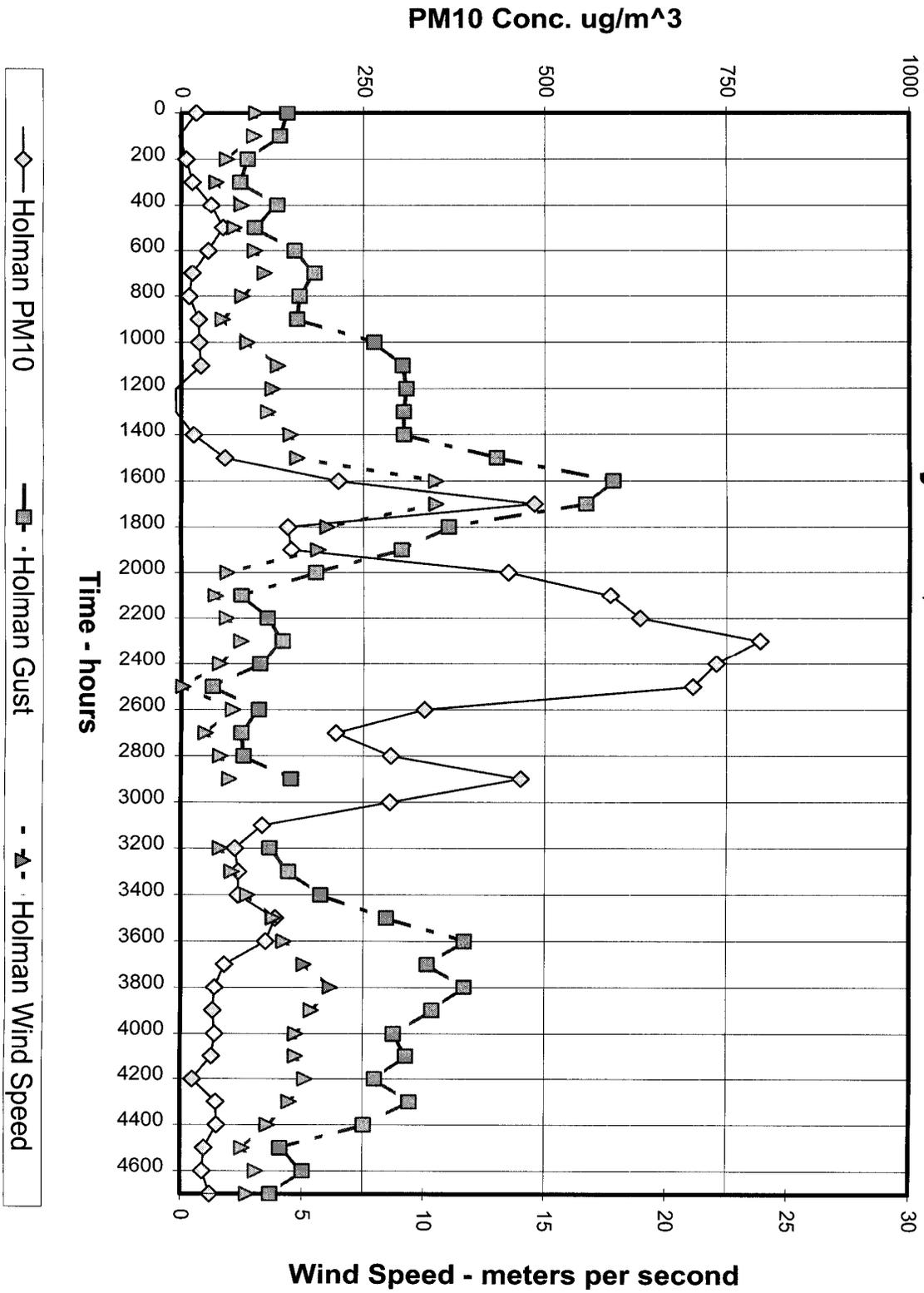
Time Series Plots of PM₁₀ and Wind Speed

Other Supporting Data

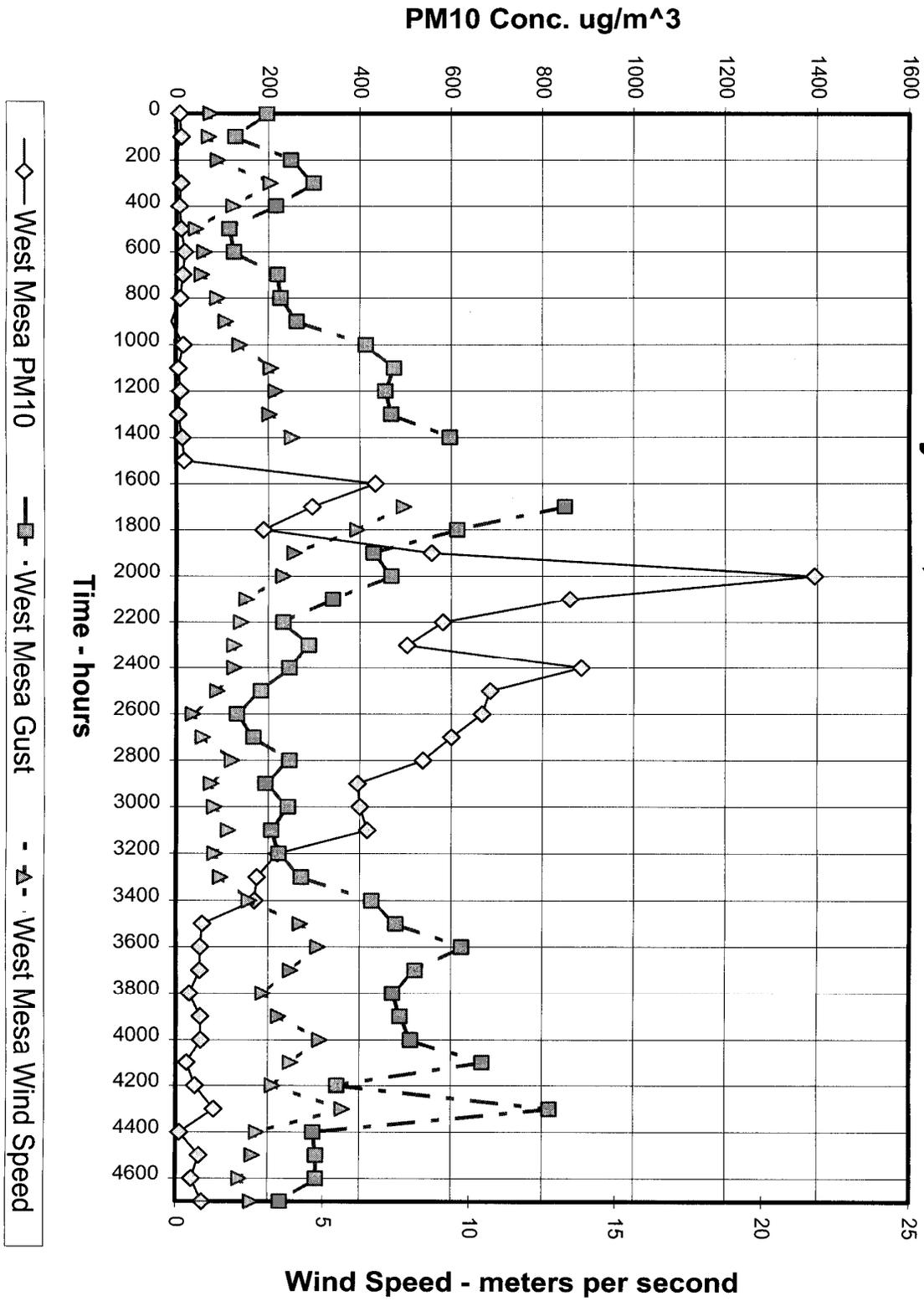
July 9-10, 2001 - Roadrunner



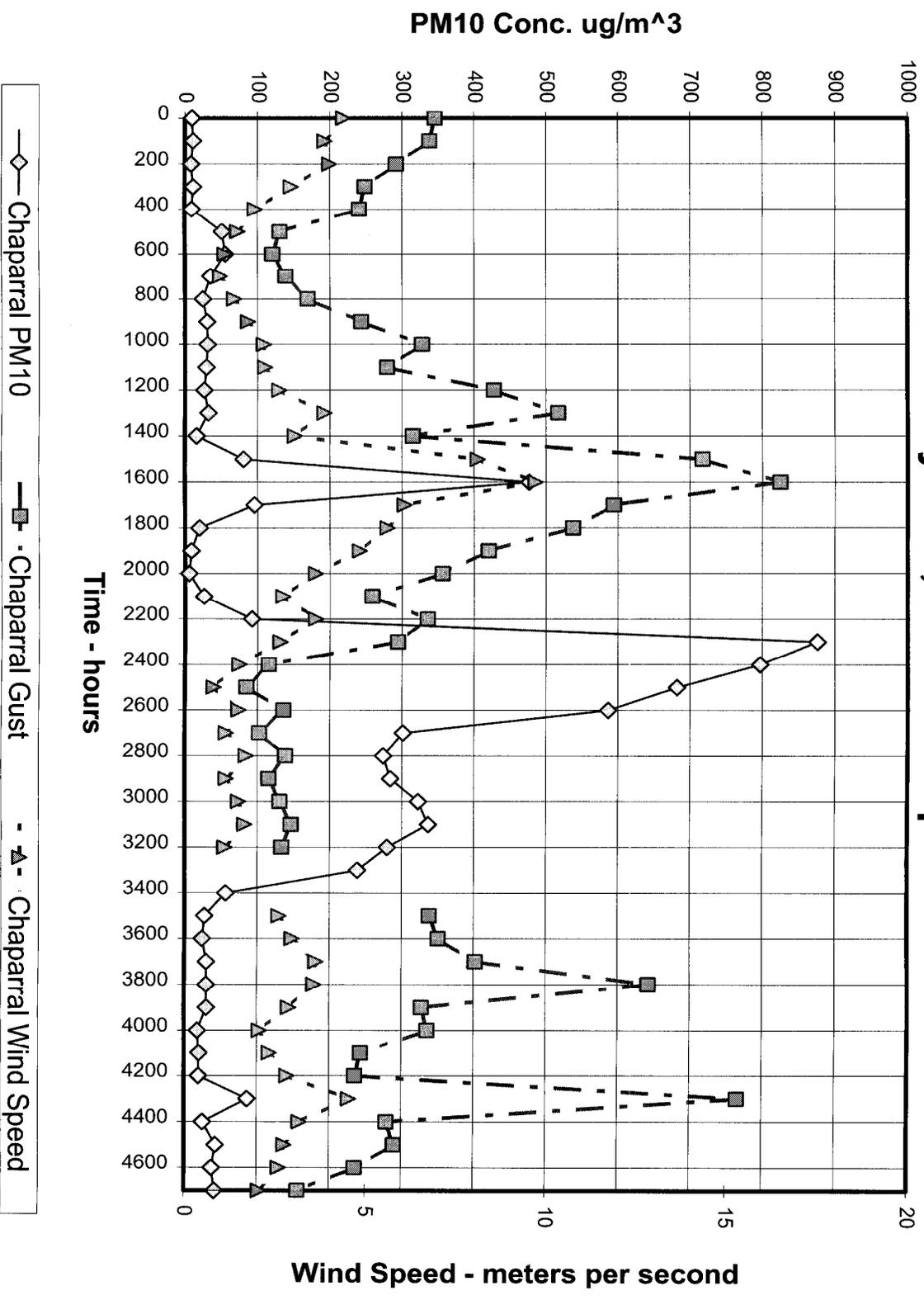
July 9-10, 2001 - Holman



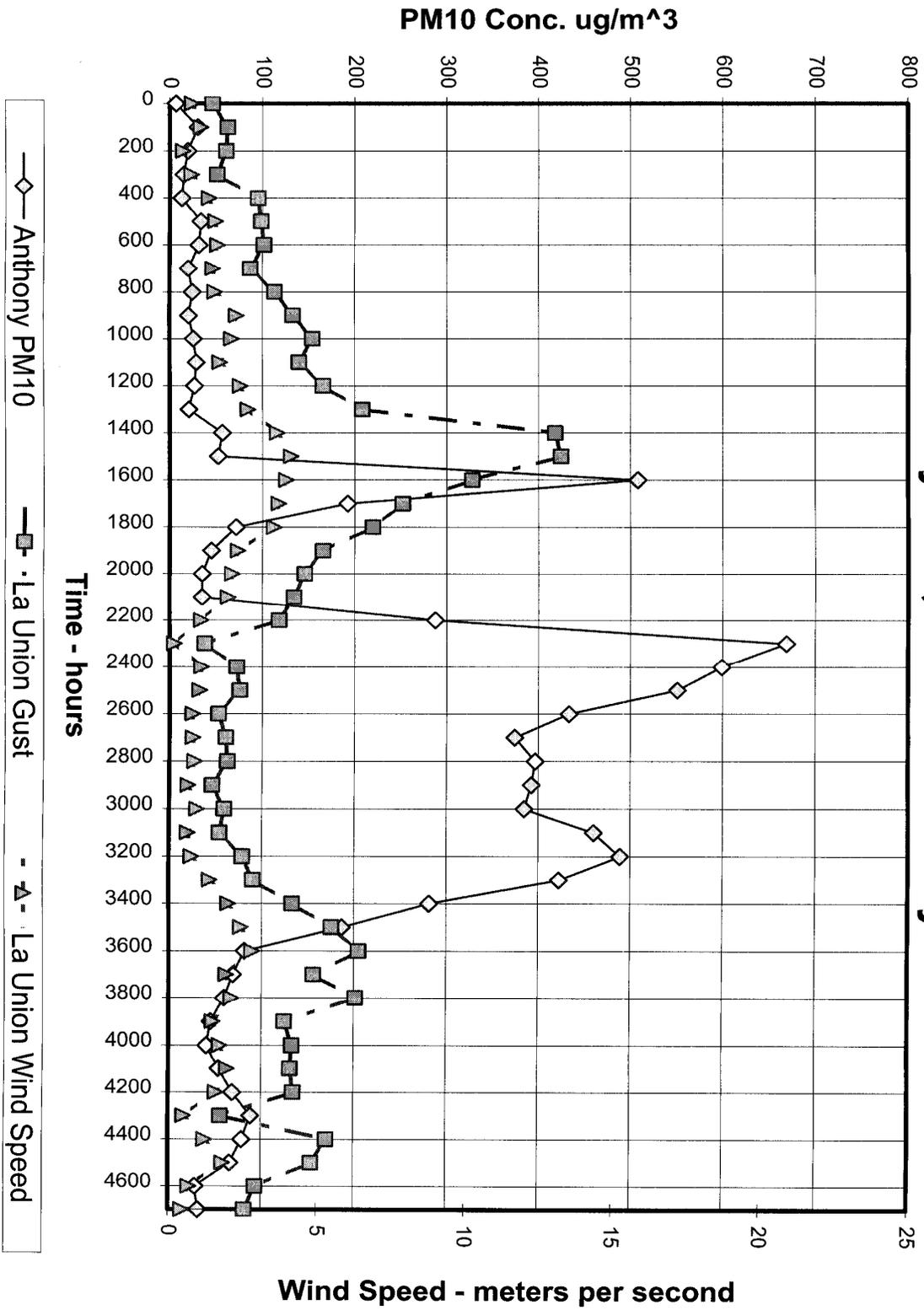
July 9-10, 2001 - West Mesa



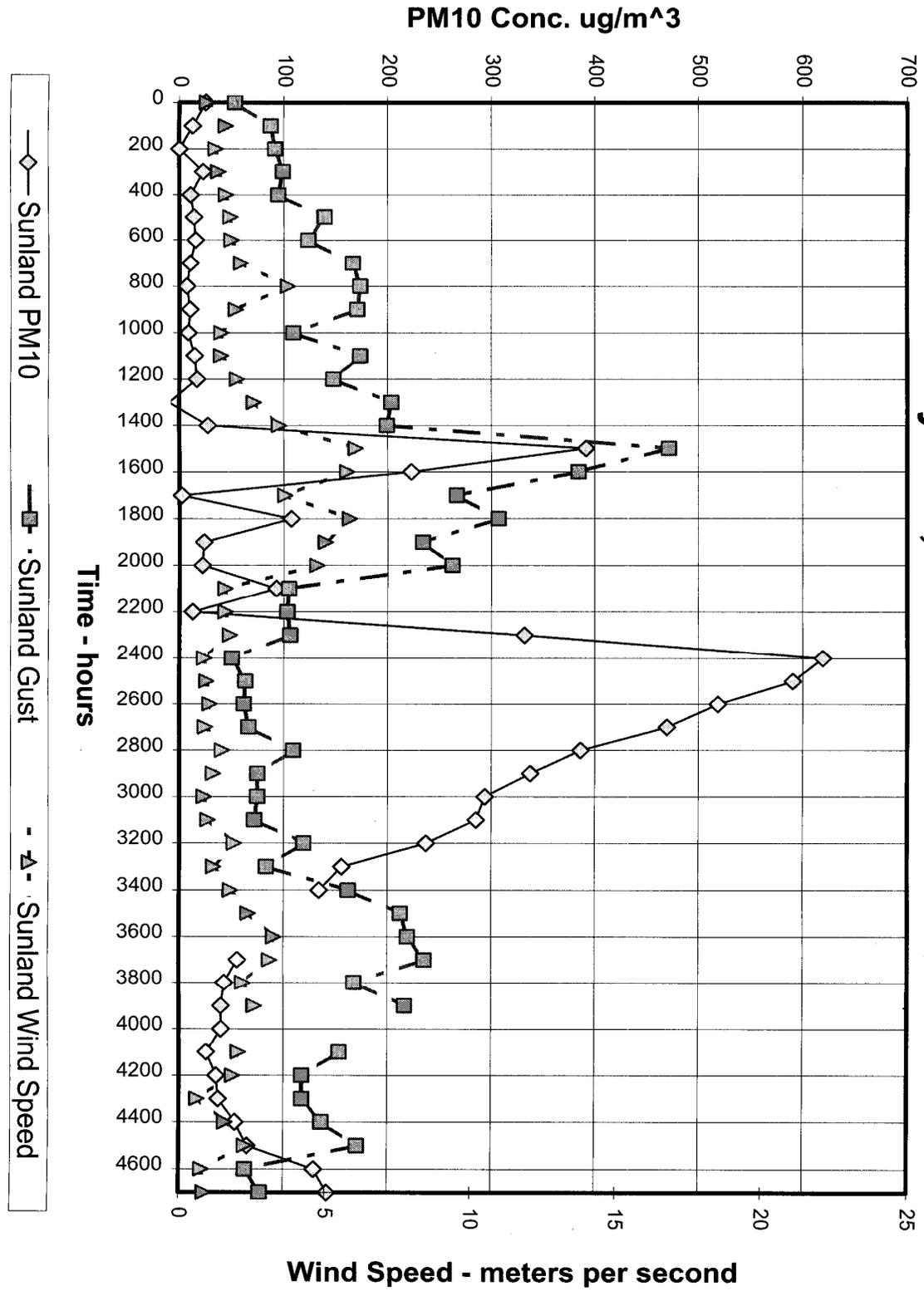
July 9-10, 2001 - Chaparral



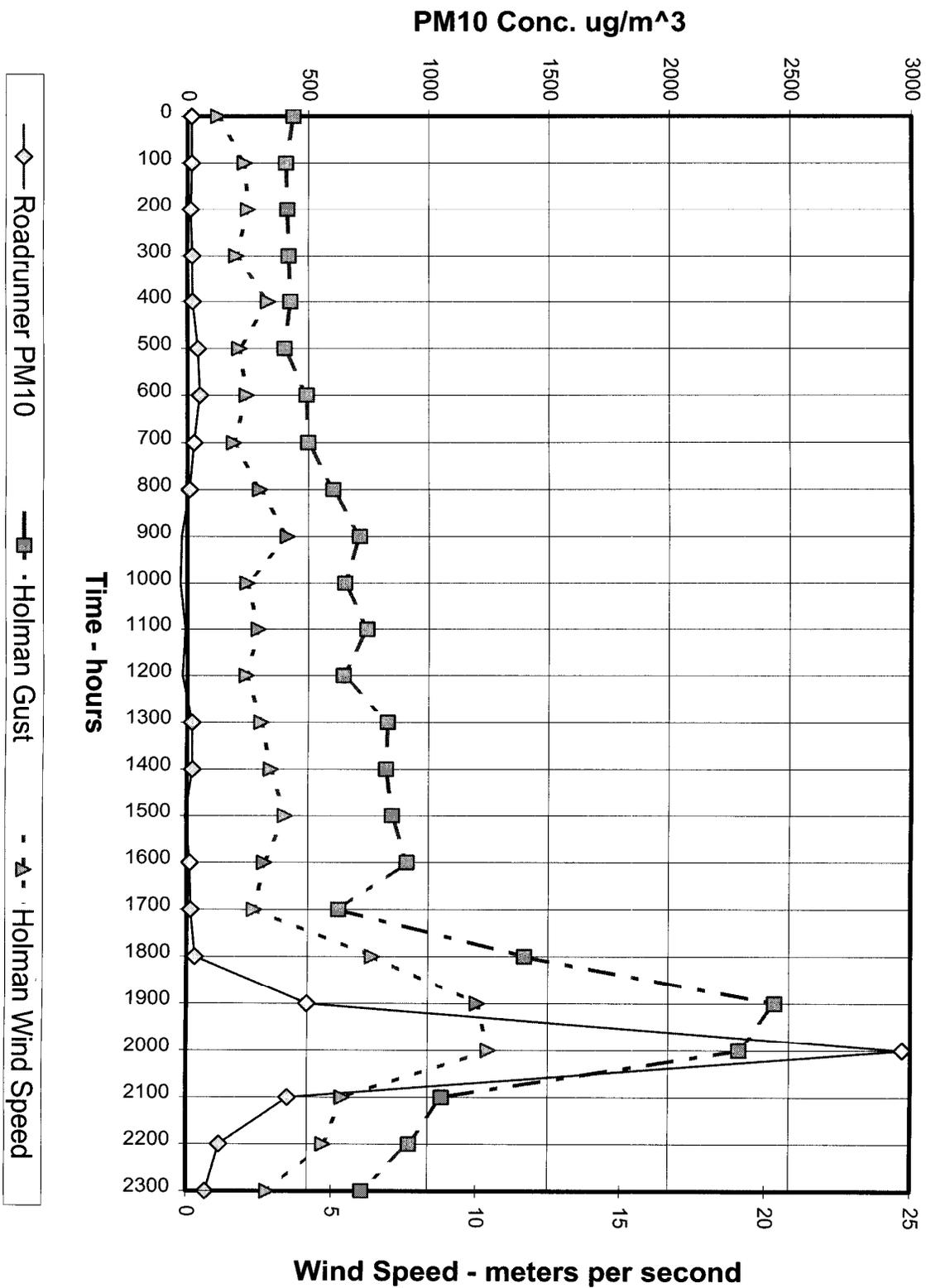
July 9-10, 2001 - Anthony



July 9-10, 2001 - Sunland Park



July 16, 2001 - Roadrunner



FXUS64 KEPZ 091942
AFDELP

AREA FORECAST DISCUSSION
NATIONAL WEATHER SERVICE EL PASO TX/SANTA TERESA NM
130 PM MDT MON JUL 9 2001

SYNOPSIS...

HIGH PRESSURE OVER THE SOUTHERN PLAINS COMBINED WITH LOW PRESSURE OVER THE SOUTHWEST WILL RESULT IN MOIST SOUTHEASTERLY WINDS ACROSS THE BORDERLAND WITH WIDELY SCATTERED TO SCATTERED THUNDERSTORMS EXPECTED THE NEXT COUPLE OF DAYS. LATER IN THE WEEK...HIGH PRESSURE ALOFT WILL SPREAD OVER THE SOUTHERN ROCKIES RESULTING IN MOSTLY SUNNY SKIES AND DECREASING THUNDERSTORM ACTIVITY.

DISCUSSION...

MODELS IN GENERAL AGREEMENT CONCERNING LARGE SCALE PATTERN WITH UPPER HIGH CENTER REMAINING OVER OKLAHOMA VICINITY TONIGHT THROUGH WEDNESDAY WHILE UPPER TROUGH SLOWLY APPROACHES WEST COAST. THIS PLACES CWA IN DEEP SOUTHEASTERLY FLOW WITH ATTENDANT MOISTURE FLUX INTO REGION. MORNING RAOBS SHOWING DECENT MOISTURE/INSTABILITY WITH PW'S NEAR AN INCH AND CAPEs AROUND 1500 J/KG. SATELLITE IMAGES NOW SHOWING ONE VORT CENTER IN NORTHERN MEXICO MOVING NNW WHICH WILL MOVE IT INTO SOUTHWESTERN ZONES LATE THIS AFTERNOON/THIS EVENING. MODELS ALSO HINT AT WEAKER SHORT WAVES AFFECTING SOUTH CENTRAL AND WESTERN ZONES LATER TONIGHT AND THIS MAY BE ASSOCIATED WITH SECOND STRONGER BAND OF THUNDERSTORMS NOW ABOUT 120 MILES SOUTH OF THE BORDER. THUS WILL FORECAST SCATTERED CONVECTION IN THE WEST AND CENTRAL ZONES WITH WIDELY SCATTERED POPS EAST.

ON TUESDAY...MORE OF THE SAME AS THIS PATTERN PATTERN PERSISTS THROUGH TOMORROW NIGHT. DEEPER MOISTURE AND HIGHER POPS SHOULD AGAIN BE IN THE WEST AS FLOW TRAJECTORIES FROM SOUTH BAJA INDICATE DEEPER MOISTURE WILL BE NEAR NEW MEXICO/ARIZONA BORDER. ON WEDNESDAY...EVEN THOUGH MODELS KEEP UPPER HIGH CENTER OVER OKLAHOMA THEY ALSO EXPAND RIDGE AXIS FURTHER WEST. THIS IN TURN EXPECTED TO SHUNT DEEPER BAJA/GULF OF MEXICO MOISTURE FURTHER WEST WITH MODIFIED POLAR/CANADIAN AIR PUSHING INTO AREA AT MID LEVELS. SO OVERALL PATTERN CHANGE SHOULD CAUSE DIMINISHED CONVECTION WEDNESDAY. SEE MOSTLY SUNNY AND MAINLY ISOLATED MOUNTAIN CONVECTION END OF WEEK AS UPPER HIGH RECENTERS OVER NORTHERN NEW MEXICO.

EL PASO	BB	69/ 95/ 69/ 96/ 70	22211
LAS CRUCES	BB	66/ 93/ 66/ 95/ 65	22211
ALAMOGORDO	BB	66/ 93/ 66/ 95/ 65	22211
CLOUDCROFT	BB	47/ 72/ 47/ 74/ 46	23211
TRUTH OR CONSEQUENCES	BB	66/ 94/ 66/ 96/ 65	22211
SILVER CITY	BB	60/ 87/ 60/ 89/ 59	33331
DEMING	BB	65/ 93/ 65/ 95/ 64	33321
LORDSBURG	BB	65/ 95/ 65/ 97/ 64	43321
SIERRA BLANCA	BB	68/ 94/ 68/ 95/ 67	22211

.ELP...NONE

05 ROGASH

N



GOES -10 visible image obtained from the Cooperative Institute for Research in the Atmosphere (CIRA), Colorado State University (<http://goes-10-gems.cira.colostate.edu/JPEG/>). White areas denote locations of clouds and thunderstorms while the dark gray areas show clear sky.