

Figure 1. Study area. Location of monitoring sites from operational or proposed wind farms on the Pacific side of the Isthmus of Tehuantepec, Oaxaca, Mexico. The 1.5km radius of radar range used during our observations is shown, along with the arrangement of wind turbines within operational wind farms, and the flight directions recorded from each site. Data was pooled for sites that were monitored multiple years, bar length indicates amount of data for each site.

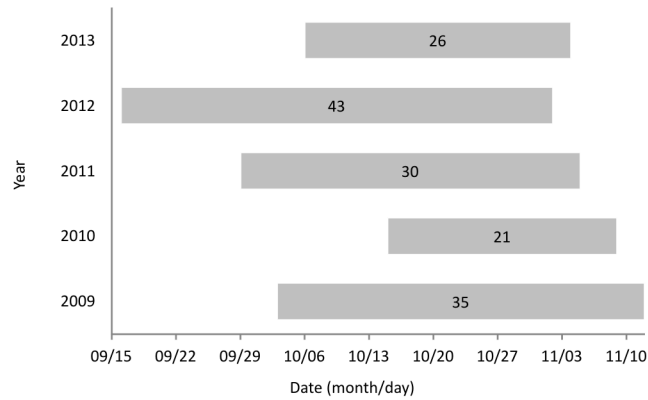


Figure 2. Monitoring periods. Extent of each radar monitoring season on the Pacific side of the Isthmus of Tehuantepec, Oaxaca, Mexico. The total number of nights when observations were made is depicted within the bars.

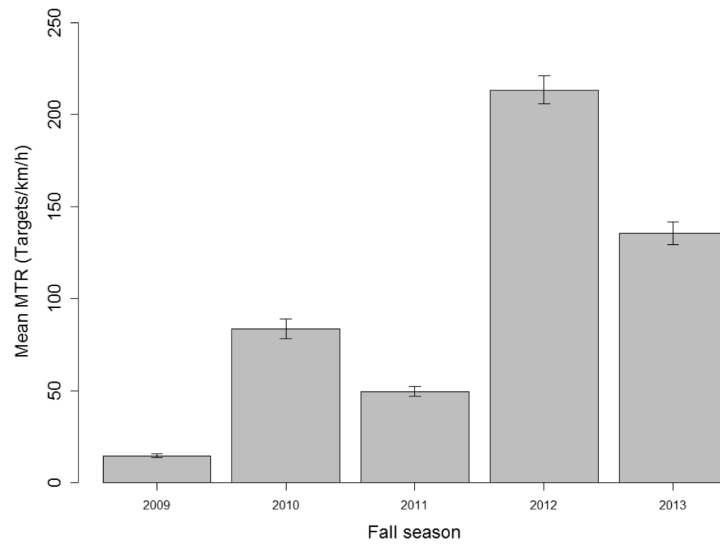


Figure 3. Annual variation in MTR. Mean MTR \pm 1 SE from different monitoring sites on the Pacific side of the Isthmus of Tehuantepec, Oaxaca, Mexico.

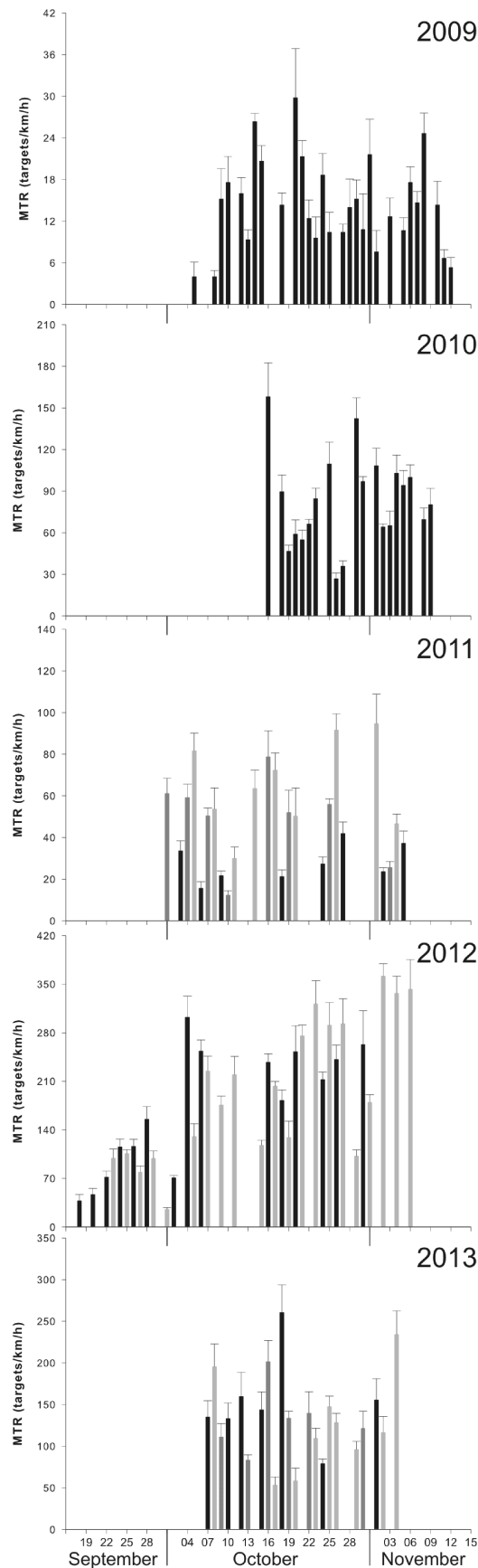


Figure 4. Mean MTR by year. Mean migratory traffic rate (MTR + SE) by date from different monitoring sites on the Pacific side of the Isthmus of Tehuantepec, Oaxaca, Mexico during 2009 (La Venta II only), 2010 (Union Fenosa only), 2011 (dark grey = Oaxaca 1, black = La Venta II, light grey = Alesco), 2012 (black = La Venta II, light grey = Peñoles) and 2013 (black = La Venta II, light grey = Santo Domingo, dark grey = Oaxaca 1). Note different scale on Y axis for 2009 – 2011, and 2012 – 2013.

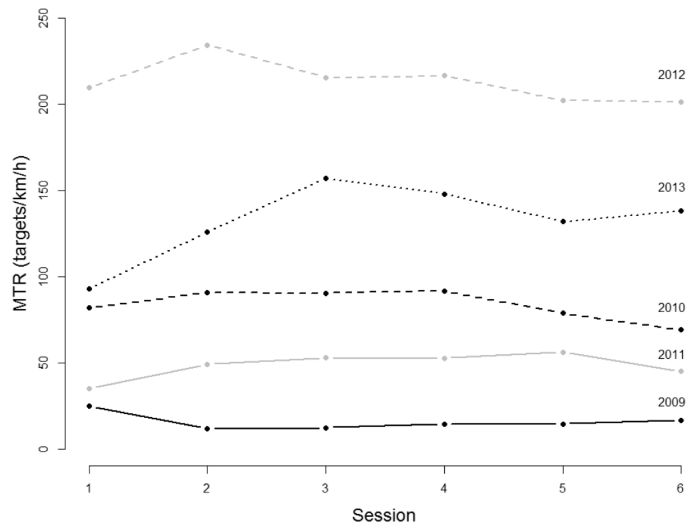


Figure 5. Mean MTR by hour. Mean migratory traffic rates (MTR) by session (starting ~45 min after sunset) for five fall migratory seasons on the Pacific side of the Isthmus of Tehuantepec, Oaxaca, Mexico

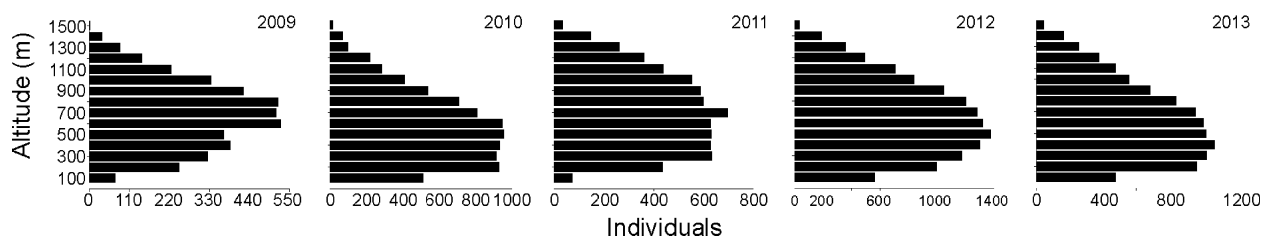


Figure 6. Number of targets by flight height category

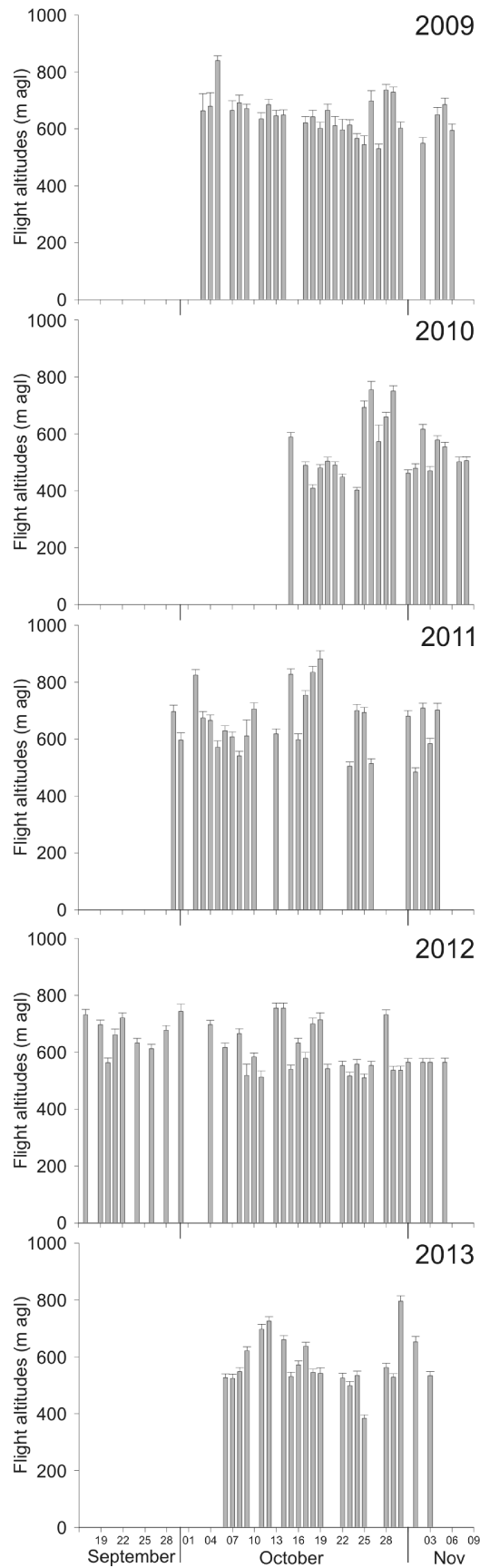


Figure 7. Flight altitudes by night. Mean flight altitude by night (+1 SE), recorded from different monitoring sites on the Pacific side of the Isthmus of Tehuantepec, Oaxaca, Mexico during five fall seasons.

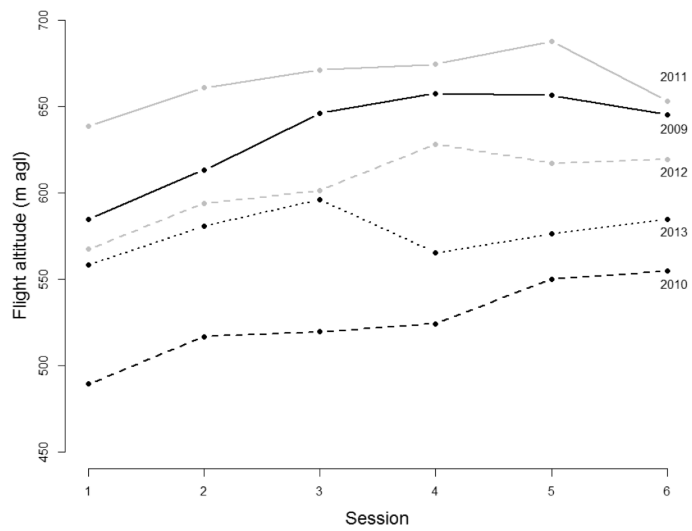


Figure 8. Mean flight altitudes by session. Starting ~45 min after sunset for five fall migratory seasons on the Pacific side of the Isthmus of Tehuantepec, Oaxaca, Mexico.