

## About the formula used in this Calculator

This Calculator uses the well-established and popular formula (Maximum Sustained Wind Speed versus Central Pressure) derived by Atkinson and Holliday (1977). It uses a formula (Central Pressure versus SST) that produces data close to but not necessary identical to that of the empirical curve for North Atlantic tropical cyclones derived by DeMaria and Kaplan (1994) extrapolated as shown in Figure 2(b) Holland et al (1998).

### References

Atkinson G. D., and Holliday C. R., (1977) Tropical Cyclone Minimum Sea Level Pressure/ Maximum Sustained Wind Relationship for the Western North Pacific. Monthly Weather Review, 105, pages 421-427.

DeMaria, M., and J. Kaplan, 1994: Sea surface temperature and the maximum intensity of Atlantic tropical cyclones. J. Climate, 7, 1324-1334.

Holland et al, Tropical Cyclones and Global Climate Change: A Post-IPCC Assessment, Bulletin of the American Meteorological Society, 79, 19–38, (1998).