Tophigram method for Bounding Interesty of Tropical Cyclones
mobient: Part (2), Tamb (2), RH(Z) from T(p), RH(p) data
for a convectively unstable ambient most adapt; (1) lifting condensation level for sea-level-ambientain (expanding to saturation on a dry adiabate Held const) Y= fr = 5 RH my P (True) 5 P (True)

True

True ref state is sea level so the purphery (n=no, 3=0) :, (RH) of P(Tel) (V-1) 18 = P(Tel) (X-1) 18 > Tel (Tel) 8 - Try (Try) 8 - Try sloop feel = Filed Rp dT + L6 d[P(T)[P] - dp/p =0 (2) locus of moist adiabat [Cp+ 15 dP(t)/dt] dT = + [ET+15P(t)] dp integrate of STA LEPETOLE from LEL Jund 12: Tomoral (7) = Tamb (7); ressign. 72, Te, 72 to this state, where Tamb (24) - 12 subscript to assigns It; 3 Imout (FE) = Tame (FE) = It Sed (or topopous)

de fort - Proset /d = R Tonoid/Proset

SE - Proset / SE Cp+ LE de Troise

Tonoise de fortes fund Princes(0), Tomordo) -- Se sure Principle Thee
iterate wildown iterate up down Pomous (0) is recovered

rep To + Lor(P(I)/p + g= #2 Ly. at the tropopause, the moist content is nagligible GP T(E)+ L5 (RH) ays P(T(E)) + 97 = H_+ can differentiate with respect to 2 to get orderary differented equation (RH) +1 (RH) ye taken as const.

awaign 02 (RH) ye 51 (eye is unadvented but not necessarily totally dry) Aftern - Pays & Fage - Pays - Pays integrate from Z= Zt to Z=0 Paye (0) no to be compared to Proved (0), Pand (O) · now suppose at some altitude Zudenwar (assigned) morst - advabalic (saturated) our lies under (RH) = {(RH) ex, Fordering unsaturated eye air: 042 < Zunderman There is a contact surface at Z= Zunderum! but no shock: P.T. Y may be discontinuous but procentimesus. From Fundamen \$ \$ 50, Go Tunderunt 45 P (Tunderun) + 9 Friederun = the Budence of Fundamen = Pundamen 2) Einderen Ponderrun RTunderrun (6) is to be compared to Provide (6),

Tomb (D)

ionscrosson to an intensity (peak swill): PE = 3£ > Notes = Spilot

Spil Rantune 100 tox nigidly notatingfore patched to pakential vortex ing Property some for a Ranking North - Conduction from salutation: [Freq - P(0)] & is much lower than Incare p(0) is much somaller of there is an expertos then por= 13,00. However: > toomist on the maderila esi at the vertical cantral ancas LA Produnction. Then, 7(0) & thought and [Pry-p(0)] 1/2 10 much smaller,