Central Pacific **HRD GPS Dropwindsonde Scientist Log** (Revised 6/1999)

Storm: Dora
Flight ID: 990814N
Mission ID: NOAA9 0107E

Flight Director: Barry Damiano
Dropwindsonde Scientists: Mike Black
AVAPS Operators: Al Goldstein, John Hill

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Takeoff 1807 UTC
Landing _____ UTC

Dora

Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	~~Surface~~ Pressure (mb)	~~10m Wind (kn)~~ A/C	MBL wind (kn)	~~SST (°C)~~ SFC winds	Location Comment	Comments	Ob #
1	9843252195	184316	23.97	154.97	177.0	1020	17	30/20	10% low cu	vertical structure 0-1205 m SA 180.8-195.8	01
2	9843252196	185954	24.00	152.70	160.0	1021	19	35/20	Clear	SA 163.9-181.6	02
3	9843252197	191659	23.99	150.44	160.0	1020.4	14	25/10	10% cu	SA 163.7-181.0	03
4	9843252203	193340	24.00	148.11	160.1	1020.3	18	25m	90% low st	Possible dry bias - adjusted SA 167-181	04
5	9843252281	195059	24.00	145.80	160.1	1020	20	20/5	50% low stratus	Auto launch delayed delayed 2 sec lower wind direction	05
6	9843252453	200810	23.93	143.56	160.1	1020	21	30/20	50% low stratus	OK SA near RH level	06
7	9843252587	202234	21.03	143.61	160.1	1016.4	21	30/20	40% low stratus		07
8	98432589	204549	21.00	145.33	160.3	1017	23	50/20	40% low stratus	OK	08
9	9843252196	205956	21.00	147.00	160.1	1017.3	22	60/20	70% low cu	OK	09
10	9843252824	211417	20.89	148.98	160.2	1017.4	25	60/25	60% stratus		10
11	9704215001	212559	19.50	149.0	160.1	1015.6	23	45/20	30% low cu	new sonder used RH2	11
12	9843252197	213841	18.03	148.90	160.1	1014.4	25	40/25	near cirrus 70% low cu	north of Dora near deep convect	12
13	9843252898	215555	18.00	146.83	160.2	1013	30	40/25	90% low cu	directly north ~ 2 deg of eye	13
14	9843252428	221349	18.00	144.7	160.3	1013.5	28	—	50% low cu	no winds - not processed	14
14a	9843252450	221648	18.00	144.3	160.3	1013.1	28	30/25	70% low cu	delayed launch detect 2.5 s noisy GPS - low bias - adjusted	
15	9843252209	223156	17.99	142.57	160.2	1012	28	→	20% low cu	used RH2	15
16	9843252257	224733	16.01	142.5	160.3				15% low cu	many bad records (like 15 seconds)	16
17	9843252279	230409	14.02	142.62	160.4				70% low cu		18

SFC 21Z = 15.2 146.3

PPB 2.0 mb SA 943-988

14 comments switched

A/C temp seems 0.5°-1.0°C too cool - resulting in SA layer after filtering even though using warmest of the 4 temp. sensors

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Drop #	Sonde ID #	Time (UTC)	Lat (°N)	Lon (°W)	Surface Pressure (mb)	10m wind (kn)	MBL wind (kn)	BT SST (°C)	Location Comment	Comments	Ob #
18	984325288	232235	14.00	144.99		—			30% low	SE of center	20
		223128	Deviated from track to paint convection on nose radar								—
										Keep 290-310, 340-35	—
		Going for an eye drop!								bad data 342-338 sec	
~~Eye~~ Drop 1 19	984325300	234457	— rainband - eyewall 981 mb SFC							Eye Drop! — Eyewall	16
		2346	Turn back to point 19								
~~Eye~~ Drop 2 South EP 20	984325304	234858	— Combo — eye at hf - south eyewall below								17
21	984325562	235200	— Failed below 500mb - not processed)								—
22	984325308	0056								no launch detect	—
22a	984325190	000231	14	147.9					10% low		21
23	990215006	001910	14.12	149.77					20% low		22
24	984325260	003515							10% low		23
25	984325263	005730							25% low	Intermittent winds	24
26	984325264	011350							40% low		25
27	984325264	013056							30% low		26

Obs out of order