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2012

Non Developers

TX PS 24

KNES

Dec '11

Floater # 3

SAB WMO Bulletin Header

MONTH - YEAR

NRL NUMBER 92P	NAME Fing	Reunion NUMBER 02U
JTWC NUMBER		Australia NUMBER

TROPICAL CYCLONE ANALYSIS WORKSHEET

SAB

Vernon F. Dvorak
Sept. 1982T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATIONT-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

STEP	1		2A,B				2C		2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	SATCON CI from MSLP	CIMSS ADT CI	Position Confidence Num	CODE	INITIALS		
DESCRIPTION	Location		Curved Band or Shear				Eye	$E_{No} + E_{Ad} = CF$	CDO	Emb. Centr.				CCC	Trend	MET	PAT	FT	CI							
RULES	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length								CF+BF=DT			Use Rules	24-Hr change				Use Rules							
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF	BF	DT	Use Rules	D-developing W-weakening S-same	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number					
20/1730Z	14.0S	155.8E	*	3/10	W Banding										1.5		D	1.0	1.5	1.5	1.5		5	T1.5/1.5/D1.5/24hr	FR	
20/2330Z	15.3S	156.6E		3/10	Banding										1.5		D	1.0	1.5	1.5	1.5		3	T1.5/1.5/D1.5/24hr	FR	
21/0530Z	16.1S	157.0E		3/10	Banding										1.5		D	1.0	1.5	1.5	1.5			T1.5/1.5/D1.5/24hr	FR	
21/1130Z	16.3S	157.3E		3/10	Banding										1.5		D	1.0	1.5	1.5	1.5			T1.5/1.5/D1.5/24hr	FR	
21/1730Z	17.4E	156.6		1 1/2	shear										10		W	10	10	15				T1.0/1.5/W0.5/12	FR	
21/2330Z	18.6S	156.0E		> 1/4	deg from edge										<1		W	<1	<1	<1					TWTC	FR
22/0530Z	19.1S	155.5E		3/10	banding	< 1/2									1.5		Ds	2.0	1.5	1.5	1.5				T1.5/1.5/D1.0/6hrs	MM
22/1130Z	19.5S	154.9E		> 1/4	from DG										<1		Ws	<1	<1	1.5	1.5				T1.5/1.5/S0.0/24hrs	MM
22/1730Z	19.8S	154.8E	7	1 1/4													W	10	10	10	15				T1.0/1.5/W0.5/12	FR
22/2330Z	21.1S	155.4E	7	1 1/4	shear LLCC										<1		S	<1	<1	1.0	1.5				T1.0/1.5/W0.5/12	FR
23/0530Z	21.9S	156.0E																							extratropical	MT

NRL NUMBER 96P	NAME 96P	Reunion NUMBER TD06F
JTWC NUMBER		Australia NUMBER

TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATIONT-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

STEP	1	2A,B	2C	2D	2E	Data T-Number Computation					3	4	5	6	7,8	9	SATCON CI from MSLP	CIMSS ADT CI	Position Confidence Num	CODE	INITIALS				
DESCRIPTION	Location	Curved Band or Shear	Eye	$E_{No} + E_{Adj} = CF$	CDO	Emb. Centr.						CCC	Trend	MET	PAT	FT						CI			
RULES	Locate Cloud System Center at focal point of cloud curvature	Use Spiral Arc Length																							
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(V/S) use Embedded Distance	(E/R) Use Surrounding Temperature	From Rules	Eye Definition	Central Dense Overcast	(E/R) Use Surrounding Temperature	CF+BF=DT			Use Rules	24-Hr change		Use Rules						
													CF	BF	DT										
22/0530Z	20.7S	179.2E													1.0		D	1.0	1.0	1.0	1.0			T1.0/1.0/D1.0/24hr	gon
22/1130Z	20.9S	178.9E													4.0		D	1.0	1.0	1.0	1.0			T1.0/1.0/D1.0/24hr	gon
22/1730Z	20.4S	179.4E													3.0		D	1.0	1.0	1.0	1.0			T1.0/1.0/D1.0/24hr	MM
23/0001Z	22.2S	179.1E													2.5		D	1.5	1.5	1.5	1.5			T1.5/1.5/D1.0/24hr	gon
23/0530Z	23.3S	179.8W													10		S	10	10	10	15			T10/15/150.0/24hr	SI
23/1122Z	23.8S	178.2W													10		S	10	10	10	15			T10/15/150.0/24hr	AV
23/1801Z	23.9S	176.8W													-			4.0	4.0	4.0				TWTC	EG

SAB WMO Bulletin Header

MONTH - YEAR

Floater #

NRL NUMBER

985

JTWC NUMBER

NAME _____

Reunion NUMBER

Australia NUMBER

SAB

Vernon F. Dvorak
Sept. 1982

T-NUMBER ESTIMATE FROM MEASUREMENTS FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL AND DT CONSTRAINTS

[illegible]

TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL AND DT CONSTRAINTS

SAB
Vernon F. Dvorak
Sept. 1982

[illegible]

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KNES

February 2012

Floater # 10

SAB WMO Bulletin Header

MONTH - YEAR

NRL NUMBER

S. Atlantic
IN 2

Reunion NUMBER

JTWC NUMBER

NAME

Australia NUMBER

TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATIONT-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

SAB

Vernon F. Dyerak
Sept. 1982

STEP	1		2A,B				2C				2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	SATCON CI from MSLP	CIMSS ADT CI	Position Confidence Num	CODE	INITIALS
DESCRIPTION	Location		Curved Band or Shear				Eye		E _{No} +E _{Adj} =CF		CDO	Emb. Centr.				CCC	Trend	MET	PAT	FT	CI					
RULES IN2	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length										CF+BF=DT			Use Rules	24-Hr change				Use Rules					
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF	BF	DT	Central Cold Cover	D-developing W-weakening S-stable	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number					
15/2345	9.4S	86.4W													1.0		D	1.0	1.0	1.0	1.0			3	T1.0/1.0/1.0/24hr	ER
16/0545Z	8.9S	86.0W												1.0			D	1.0	1.0	1.0	1.0			5	T1.0/1.0/1.0/24hr	A
16/1145Z	10.1S	85.3W												1.0			D	1.0	1.0	1.0	1.0			5	T1.0/1.0/1.0/24hr	
16/1745	9.9S	85.6W												1.0			D	1.0	1.0	1.0	1.0			3	T1.0/1.0/1.0/24hr	ALS
16/2330Z	9.6S	85.4W												0.0			W	0.0	0.0	0.0	0.0			3	TWTC	

TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATIONT-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

SAB

Vernon F. Dvorak
Sept. 1982

STEP	1		2A,B				2C				2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	CODE	INITIALS		
DESCRIPTION	Location		Curved Band or Shear				Eye				CF	Emb. Centr.	CF+BF=DT			CCC	Trend	MET	PAT	FT	CI				
RULES	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length				E _{No} +E _{Adj} =CF				Use Size	Use Temperature	CF+BF=DT			Use Rules	24-Hr change			Use Rules					
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF	BF	DT	Central Cold Core	Developing W-weakening Same	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number		
03/1900Z	16.7S	40.2E	2	2	2	2	0	0	E _{No}				2	0			10	0	D	10	10	10	10	T10/10/D10/4	MS
03/2300Z	17.0S	40.3E															25		D	1.0	1.5	1.5	1.5	T1.5/1.5/D1.5/24hrs	EG
04/0530Z	17.5S	40.7E	2	2	2	2											1.5		D	1.0	1.5	1.5	1.5	T1.5/1.5/D1.5/24hrs	ER
04/1130Z	17.4S	40.7E	2	2	2	2											1.5		D	1.5	1.5	1.5	1.5	T1.5/1.5/D1.5/24hrs	AD
04/1730Z	17.4S	41.3E															25		D	2.0	2.0	2.0	2.0	T2.0/2.0/D2.0/24hrs	AD
04/2330Z	17.4S	42.2E															3.0		D	2.5	2.5	2.5	2.5	T2.5/2.5/D2.5/24hrs	ML
05/0530Z	17.2S	42.7E															3.0		S	1.5	2.0	2.0	2.5	T2.0/2.5/D0.5/24hrs	ER
05/1130Z	17.3S	43.3E															1.5		S	1.5	1.5	1.5	1.5	T1.5/1.5/D1.5/24hrs	AD
05/1730Z	17.4S	43.8E															1.0		W	1.0	1.0	1.0	2.0	T1.0/2.0/W1.0/24hrs	AD
05/2330Z	17.4S	43.4E	X														1.0		Wp	1.0	1.0	1.0	1.5	T1.0/1.5/W1.5/24hrs	AD
06/0600Z	16.8S	43.3E															1.0		W	1.0	1.0	1.0	1.0	T1.0/1.0/W1.0/24hrs	ER
06/1130Z	17.5S	43.2E															1.0		S	1.5	1.0	1.0	1.0	T1.0/1.0/W0.5/24hrs	AD
06/1900Z	17.4S	42.6E															1.0		W	1.0				T1.0/1.0/W1.0/24hrs	AD

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March 2012

Floater # 4

SAB WMO Bulletin Header

MONTH - YEAR

TROPICAL CYCLONE ANALYSIS WORKSHEET

SAB

Vernon F. Dvorak
Sept. 1982T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATION

NRL NUMBER

94P

Reunion NUMBER

JTWC NUMBER

NAME

Australia NUMBER

T-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

STEP	1		2A,B		2C				2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	CODE	INITIALS				
DESCRIPTION	Location		Curved Band or Shear		Eye				E _{No} +E _{Adj} =CF				CDO	Emb. Centr.				CCC	Trend			MET	PAT	FT	CI
RULES	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length																			Use Rules	24-Hr change	MET	PAT
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF	BF	DT	Central Cold Core	D-developing W-weakening S-same	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number		
IN 1																									
04/1732Z	25.4S	153.3E		X		4/10 Banding											2.5		D	1.5	1.5	1.5	1.5	T1.5/1.5/D1.5/24hrs	EG
04/1233Z	25.2S	152.9E		X													3.0							overland	AS
05/0532Z	26.7S	153.7E		X		4.5/10 Banding											2.5		D	1.5	2.0	2.0	2.0	T2.0/2.0/D0.5/12hrs	BR
05/1132Z	25.8S	154.9E		X		5/10 Banding											2.5		D	1.5	2.0	2.0	2.0	T2.0/2.0/D0.5/18hrs	BR
05/1732Z	24.8S	154.2E				2 3/4° shear											2.5		S	1.5	2.0	2.0	2.0	T2.0/2.0/D0.5/24HRS	BR
05/2332Z	23.9S	153.7E				<1 1/4° shear											1.5		S	1.5	1.5	1.5	2.0	T1.5/2.0/W0.5/06 hrs	EG
06/0532Z	22.3S	154.1E				4 1/2° shear											1.5		W	1.0	1.5	1.5	2.0	T1.5/2.0/W0.5/24hrs	BR
06/1132Z	21.3S	154.1E				x <30° shear											3.0		W	1.5	1.5	1.5	1.5	T1.5/1.5/W0.5/24hrs	BR
06/1732Z	21.3S	153.7E															0		W	1.0	1.0	1.0	1.5	T1.0/1.5/W1.0/12	BR
06/2330Z	20.6S	153.6				NO CONVECTION											0		W	<1.0	<1.0			TWTC	ER
07/1132Z	20.9S	152.9E				<1 1/2° shear											3.0		D	2.0	1.5	1.5	1.5	T1.5/1.5/D1.0/12 hrs	EG
07/1732Z	20.1S	152.8E				<3/4° shear											2.5		D	1.5	1.5	1.5	1.5	T1.5/1.5/D0.5/12hrs	BR
07/2332Z	20.7S	152.7E				<1 1/4° shear											1.0		D	1.0	1.0	1.0	1.5	T1.0/1.5/W0.5/12HRS	BR
08/0532Z	21.4S	152.3E				<2/10 banding											0		W	<1.0	<1.0			TWTC	EG

TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATIONT-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

SAB

Vernon F. Dvorak
Sept. 1982

STEP	1	2A,B	2C	2D	2E	Data T-Number Computation	3	4	5	6	7,8	9	CODE	INITIALS								
DESCRIPTION	Location	Curved Band or Shear	Eye	$E_{No} + E_{Adj} = CF$	CDO	Emb. Centr.	CCC	Trend	MET	PAT	FT	CI										
RULES	Locate Cloud System Center at focal point of cloud curvature	Use Spiral Arc Length	DT1.5 DT2.5 DT3.5 DT4.5	(VIS) use Embedded Distance (EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF+BF=DT	CF	BF	DT	Use Rules	24-Hr change	MET	PAT	Use Rules	Current Intensity Number		
DATE/TIME	LAT	LONG	DT1.5 DT2.5 DT3.5 DT4.5	(VIS) use Embedded Distance (EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF+BF=DT	CF	BF	DT	Use Rules	24-Hr change	MET	PAT	Use Rules	Current Intensity Number		
13/0001Z	12.9S	126.5E	> 3/10	white banding							1.5					D	1.5	1.5	1.5	1.5	T1.5/1.5/D1.5/24hr	EG
13/0601Z	12.8S	127.2E	> 3/10	banding (vis)							2.0					D	1.5	1.5	1.5	1.5	T1.5/1.5/D1.5/24hr	MM
13/1132Z	12.9S	127.5E													X	D	15	15	15	15	T1.5/1.5/D1.0/24	AG
13/1732Z	13.8S	127.4E													X	D	20	20	20		T20/2.0/D1.0/24	n
13/2322Z	14.7S	127.8																			overland	EG
18/0001Z	16.9S	140.8E	> 3/10	white							1.0					D	1.0	1.0	1.0	1.0	T1.0/1.0/D1.0/24hr	EG
18/0532Z	17.0S	140.7E	2.5/10	(1.5)				(2.0) 1 1/4° mag			1.5					D	1.0	1.5	1.5	1.5	T1.5/1.5/D1.0/24hr	MT
8/1122Z	16.8S	141.3E																			overland	EG
8/2332Z	17.1S	141.2E																			overland - last	EG

TX 1529

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KNES

March 2012

MONTH - YEAR

Floater # 4

NRL NUMBER

93P

JTWC NUMBER

NAME

Reunion NUMBER

Australia NUMBER

TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATIONT-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

SAB

Vernon F. Dvorak
Sept. 1982

STEP	1		2A,B		2C				2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	CODE	INITIALS					
DESCRIPTION	Location		Curved Band or Shear		Eye		E _{No} +E _{Adj} =CF		CDO	Emb. Centr.				CCC	Trend	MET	PAT	FT	CI							
RULES 93P	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length		(VIS) Use Embedded Distance		(EIR) Use Surrounding Temperature		From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF+BF=DT			Use Rules	24-Hr change					Use Rules		
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) Use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF	BF	DT	Central Cold Core	D-developing W-weakening S-same	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number			
28/0532Z	17.1S	180.0E															1.0		D	1.0	1.0	1.0	1.0	T1.0/1.0/01.0/24hrs	EG	
28/1132Z	18.3S	178.7E															1.0		D	1.0	1.0	1.0	1.0	T1.0/1.0/01.0/24hrs	MT	
28/1732Z	18.3S	177.1E															1.0		D	1.0	1.0	1.0	1.0	T1.0/1.0/01.0/24hrs	MT	
29/2332Z	18.5S	176.2E															1.5		D	1.5	1.5	1.5	1.5	T1.5/1.5/01.0/24hrs	AS	
29/0532Z	18.0S	175.8E															1.5		D	1.5	1.5	1.5	1.5	T1.5/1.5/00.5/24hrs	AS	
29/1132Z	18.0S	175.9E															2.0		D	2.0	2.0	2.0	2.0	T2.0/2.0/01.0/24hrs	AS	
29/1732Z	17.7S	176.3E															2.0		D	2.0	2.0	2.0	2.0	T2.0/2.0/01.0/24hrs	AS	
29/2332Z	20.0S	176.3E															2.5		D	2.5	2.5	2.5	2.5	T2.5/2.5/01.0/24hrs	AS	
30/0532Z	21.0S	175.9E															-		W _p	-	-	1.5	2.5	T1.5/2.5/W1.0/01.0/24hrs	AS	
30/1132Z	21.4S	175.5E															-		W _p	2.0	2.0	1.0	2.0	T1.0/2.0/W1.0/24hrs	AS	
30/1732Z	21.7S	175.1E															-		W _p	4.0	4.0	1.0	1.5	T1.0/1.5/W1.0/24hrs	AS	
30/2332Z	22.1S	174.7E																							TWTC	AS

TXPQ24

KNES

APRIL 2012

Floater # 5

SAB WMO Bulletin Header

MONTH - YEAR

NRL NUMBER

90C

JTWC NUMBER

NAME

Reunion NUMBER

Australia NUMBER

TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATIONT-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

SAB

Vernon F. Dvorak
Sept. 1982

STEP	1		2A,B		2C				2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	CODE	INITIALS					
DESCRIPTION	Location		Curved Band or Shear		Eye		$E_{No} + E_{Adj} = CF$		CDO	Emb. Centr.				CCC	Trend	MET	PAT	FT	CI							
RULES	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length								CF+BF=DT			Use Rules	24-Hr change			Use Rules								
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF	BF	DT	Central Cold Core	Developing W-weakening S-same	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number			
08/1430Z	17.9N	177.4E							E_{No}			E_{Adj}													ST1.5	MR
08/2030Z	18.3N	176.1E																						ST1.5	AS	
09/00Z	18.5N	175.3E																						ST1.5	AS	
09/0832	18.9	174.1E																						+WTC	AS	

SAB

Vernon F. Dvorak
Sept. 1982

TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL AND DT CONSTRAINTS

[illegible]

TX I021

KNES

April 2012

Floater # 1

SAB WMO Bulletin Header

MONTH - YEAR

NRL NUMBER

90B

JTWC NUMBER

NAME

Reunion NUMBER

Australia NUMBER

TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATIONT-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

STEP	1		2A,B		2C				2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	CODE	INITIALS				
DESCRIPTION	Location		Curved Band or Shear		Eye		$E_{No} + E_{Adj} = CF$		CDO	Emb. Centr.				CCC	Trend	MET	PAT	FT	CI						
RULES	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length								CF+BF=DT			Use Rules	24-Hr change			Use Rules							
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF	BF	DT	Central Cold Cover	Developing W-weakening S-same			Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number
24/0830Z	6.2N	77.0E*			>2/10												1.0		D	1.0	1.0	1.0	1.0	T1.0/1.0/D1.0/24 hr	MT
24/1430Z	6.0N	76.5E*			3/10												1.0		D	1.0	1.0	1.0	1.0	T1.0/1.0/D1.0/24 hr	MT
24/2030Z	5.5N	76.2E			>9/10												1.0		D	1.0	1.0	1.0	1.0	T1.0/1.0/D1.0/24 hrs	EG
25/0230Z	6.1N	76.8E															-		-					TWTC	ER

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TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATIONT-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

SAB

Vernon F. Dvorak
Sept. 1982

STEP	1		2A,B				2C				2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	CODE	INITIALS						
DESCRIPTION	Location		Curved Band or Shear				Eye				$E_{No} + E_{Adj} = CF$				CDO	Emb. Centr.				CCC	Trend			MET	PAT	FT	CI		
RULES	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length				(VIS) use Embedded Distance				(EIR) Use Surrounding Temperature				From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF+BF=DT			Use Rules	24-Hr change			Use Rules	
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF	BF	DT	Central Cold Cover	D-developing W-weakening S-same	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number						
97W																													
24/2101Z	5.0	136.6E															1.0		D	1.0	1.0	1.0	1.0		T1.0/1.0/D1.0/64hr	EG			
25/0301Z	5.4N	136.2E															1.0		D	1.0	1.0	1.0	1.0		T1.0/1.0/D1.0/24hr	ER			
25/0832Z	4.3N	135.8E															0.0								TWTC	ER			
28/2101Z	5.5N	127.9E ^X															1.0		D	1.0	1.0	1.0	1.0		T1.0/1.0/D1.0/24hr	MT			
29/0232Z	5.8N	127.0E															2.5		D	1.5	1.5	1.5	1.5		T1.5/1.5/D1.0/24hr	MM			
29/0832Z	5.9N	125.9E															1.0		D	1.5	1.0	1.0	1.5		T1.0/1.5/D1.0/24hr	MM			
29/1432Z	6.3N	125.6E															-								overland				
29/2101Z	6.4N	125.5E																							overland				
30/0301Z	6.4N	123.8E																							TWTC	MM			

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OCEAN AREA

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NRL NUMBER

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TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATIONT-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

STEP	1		2A,B		2C				2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	CODE	INITIALS				
DESCRIPTION	Location		Curved Band or Shear		Eye				$E_{No} + E_{Adj} = CF$				CDO	Emb. Centr.				CCC	Trend			MET	PAT	FT	CJ
RULES	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length								CF+BF=DT														
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF	BF	DT	Central Cold Core	D-developing W-wake/turning S-same	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number		
11/1730Z	8.4N	112.5W	X	3	7	10	Banding										1.5		D	1.0	1.0	1.0		T1.0/1.0/D1.0/24h	Apr
12/0000Z	7.4N	112.5W		3	10	Banding											1.5		D	1.0	1.0	1.0	1.0	T1.0/1.0/D1.0/24h	EG
12/0600Z	6.7N	112.6W				2	10										0		D	1.0	1.0	1.0	1.0	T1.0/1.0/D1.0/24h	MT
12/1200Z	6.3N	112.8W	O														0		D	1.0	1.5	1.0	1.0	T1.0/1.0/D1.0/24h	h
12/1800Z	6.1N	113.1W															0		W	-	-	-	-	TwTC	As

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Vernon F. Dvorak
Sept. 1982

TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL AND DT CONSTRAINTS

Last Update 02/24/11

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TROPICAL CYCLONE ANALYSIS WORKSHEET

Vernon F. Dvorak
Sept. 1982

T-NUMBER ESTIMATE FROM MEASUREMENTS FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL AND DT CONSTRAINTS

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TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATIONT-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

SAB

Vernon F. Dvorak
Sept. 1982

STEP	1		2A,B		2C				2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	CODE	INITIALS				
DESCRIPTION	Location		Curved Band or Shear		Eye		$E_{No} + E_{Adj} = CF$		CDO	Emb. Centr.				CCC	Trend	MET	PAT	FT	CI						
RULES	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length								CF+BF=DT			Use Rules	24-Hr change			Use Rules							
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF	BF	DT	Central Cold Core	Developing Wavy shearing S-sense	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number		
17/0000Z	15.6N	110.3W															10		D	10	10	10	10	T1.0/1.0/10.0/24hr	EG
17/0600Z	15.9N	110.5W															0		-	-	-	-	-	TWTC	ER
17/1800Z	16.9N	110.8W															1.0		D	1.0	1.0	1.0	1.0	T1.0/1.0/10.0/24hr	EG
18/0000Z	16.9N	109.0W																						+twtc	EG
18/0600Z	17.1N	108.8W															1.0		D	1.0	1.0	1.0	1.0	T1.0/1.0/10.0/24hr	EG
18/1200Z	17.4N	108.1W															1.0		D	1.0	1.0	1.0	1.0	T1.0/1.0/10.0/24hr	EG
18/1800Z	17.1N	107.8W															1.0		D	2.0	1.5	1.0	1.0	T1.0/1.0/10.0/24hr	EG
19/0000Z	17.3N	107.6W															1.5		D	1.0	1.5	1.5	1.5	T1.5/1.5/10.5/24hr	EG
19/0600Z	17.5N	107.2W															1.5		Ds	1.5	1.5	1.5	1.5	T1.5/1.5/10.5/24hr	EG
19/1200Z	17.5N	107.4W															1.0		Os	1.5	1.0	1.0	1.5	T1.0/1.5/10.5/12hr	EG
19/1800Z	17.5N	107.5W															1.0		W	1.0	1.0	1.0	1.5	T1.0/1.5/10.5/12hr	EG
20/0000Z	17.5N	107.5W															2.5		W	1.0	1.0	1.0	1.0	T1.0/1.0/10.5/24hr	EG
20/0600Z	17.5N	107.6W															1.0		W	1.0	1.0	1.0	1.0	T1.0/1.0/10.5/24hr	EG
20/1200Z	17.7N	107.9W															1.0							TWTC	EG
20/1800Z	18.0N	108.1W																						TWTC	EG

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Vernon F. Dvorak
Sept. 1982

TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATIONT-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

STEP	1		2A,B				2C				2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	CODE			
DESCRIPTION	Location		Curved Band or Shear				Eye		E _{No} +E _{Adj} =CF		CDO	Emb. Centr.				CCC	Trend	MET	PAT	FT	CI				
RULES	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length				(VIS) Use Embedded Distance		(EIR) Use Surrounding Temperature		From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF+BF=DT			Use Rules	24-Hr change		Model Expected T-Number	Pattern T-Number	Use Rules
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) Use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF	BF	DT	CCC	D-developing W-weakening S-same	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number		
28/21012	3.8N	143.5E															1.0		D	1.0	1.0	1.0	1.0	T1.0/1.0/1.0/1.0/24hrs	
29/0232Z	3.9N	141.8E															1.0		D	1.0	1.0	1.0	1.0	T1.0/1.0/1.0/1.0/24hrs	
29/0901Z	4.6N	141.2E	X														1.0		D	1.0	1.0	1.0	1.0	T1.0/1.0/1.0/1.0/24hrs	
29/1432	4.8N	140.9E															1.0		D	1.0	1.0	1.0	1.0	T1.0/1.0/1.0/1.0/24hrs	
29/2032	5.7N	139.5W																						+wtk	
30/0232	6.5N	138.2E	X														1.0		S	1.0	1.0	1.0	1.0	T1.0/1.0/50.0/24hrs	
30/0832Z	9.3N	134.5E																						TWTC	
02/0832Z	13.1N	125.8E															1.5		D	1.5	1.5	1.5	1.5	T1.5/1.5/1.0/24hrs	
02/1432Z	13.2N	124.8E															2.0		D	2.0	2.0	2.0	2.0	T2.0/1.5/24hrs	
02/2101Z	13.7N	123.8E																						OVERLAND	
03/0232Z	14.3N	122.5W																						OVERLAND	
03/0832Z	14.4N	121.8W																						TWTC	

OCEAN AREA

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TROPICAL CYCLONE ANALYSIS WORKSHEET

SAB

Vernon F. Dvorak
Sept. 1982

T-NUMBER ESTIMATE FROM MEASUREMENTS FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL AND DT CONSTRAINTS

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Sept. 1982

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL AND DT CONSTRAINTS

Last Update 02/24/11

OCEAN AREA

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T-NUMBER ESTIMATE FROM MEASUREMENTS FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL AND DT CONSTRAINTS

Vernon F. Dvorak
Sept. 1982

Last Update 02/24/11

OCEAN AREA

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TROPICAL CYCLONE ANALYSIS WORKSHEET

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Sept. 1982

T-NUMBER ESTIMATE FROM MEASUREMENTS FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL AND DT CONSTRAINTS

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TROPICAL CYCLONE ANALYSIS WORKSHEET

SAB
Vernon F. Dvorak
Sept. 1982

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

STEP	1	2A,B	2C				2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	CODE	INITIALS							
DESCRIPTION	Location	Curved Band or Shear	Eye	E _{No} +E _{Adj} =CF				CDO	Emb. Centr.				CCC	Trend	MET	PAT	FT			CI						
RULES	Locate Cloud System Center at focal point of cloud curvature	Use Spiral Arc Length	(VIS) use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF+BF=DT			Use Rules	24-Hr change					Use Rules						
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF	BF	DT	Central Cold Core	D-developing W-weakening S-same	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number			
08/0600Z	10.9N	102.0E		<	2/10	BANDING											-								TWTC	NL
08/1145Z	11.0N	102.8E		> 2/10											1.0				D	1.0	1.0	1.0	1.0		T1.0/1.0/D0.5/24HRS	AF
08/1245Z	10.1N	103.6E		> 2/10											1.0				D	1.0	1.0	1.0	1.0		T1.0/1.0/D0.5/24HRS	AF
08/2345Z	11.2N	104.9E		< 1 1/4° shear					mid-lowl						1.0				D	1.0	1.0	1.0	1.0		T1.0/1.0/D1.0/24hr	EG
09/0545Z	11.3N	104.7W		> 2/10											1.0				D	1.0	1.0	1.0	1.0		T1.0/1.0/D1.0/24hr	ER
09/1145Z	12.0	105.8													0				h3	1.5	1.0	1.0	1.0		T1.0/1.0/50.0/24	AI
09/1745	10.5	102.5																							TWTC	

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Vernon F. Dvorak
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TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL AND DT CONSTRAINTS

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TROPICAL CYCLONE ANALYSIS WORKSHEET

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Version 2: Dorak
Sept. 1982
T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATIONT-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

STEP	1	2A,B	2C	2D	2E	Data T-Number	3	4	5	6	7,8	9		
DESCRIPTION	Location	Curved Band or Shear	Eye	$E_{No} + E_{Adj} = CF$	CDO	Emb. Centr.	CCC	Trend	MET	PAT	FT	CI		
RULES	Locate Cloud System Center at focal point of cloud curvature	Use Spiral Arc Length	Eye				Use Rules	24-Hr change			Use Rules			
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	Central Cal. Code	Developing W-weakening Same	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number	CODE	INITIALS
12/23/15	13.9N	95.2W	2	2	2	2	2	D	10	10	10	10	11.0/10/10/10/10	ER
13/0545Z	14.1N	96.4W	2	2	2	2	2	D	1.0	1.0	1.0	1.0	11.0/1.0/1.0/1.0/24hr	ER
13/1145Z	14.9N	97.0W	2	2	2	2	2	D	1.0	1.0	1.0	1.0	11.0/1.0/1.0/1.0/24hr	EG
13/1745Z	15.5N	97.5W	2	2	2	2	2	D	1.0	1.0	1.0	1.0	TWTC	EG
13/2345Z	16.2N	99.3W	X	3	4	10	15	S	1.0	1.0	1.0	1.0	11.0/1.0/50.0/24hr	ER
14/0545Z	17.0N	100.3W											Overland	ER

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NRL NUMBER

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TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL AND DT CONSTRAINTS

SAB

Vernon F. Dvorak
Sept. 1982

[illegible]

OCEAN AREA

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NRL NUMBER

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RSMC NUMBER

NAME _____

TROPICAL CYCLONE ANALYSIS WORKSHEET

Vernon F. Dyorak
Sept. 1982

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL AND DT CONSTRAINTS

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OCEAN AREA

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TROPICAL CYCLONE ANALYSIS WORKSHEET

SAB
Vernon F. Dvorak
Sept. 1982

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

STEP	1	2A,B	2C	2D	2E	Data T-Number Computation	3	4	5	6	7,8	9	CODE	INITIALS					
DESCRIPTION	Location	Curved Band or Shear	Eye	E _{No} +E _{Adj} =CF			CDO	Emb. Centr.	CF+BF=DT			CCC			Trend	MET	PAT	FT	CI
RULES	Locate Cloud System Center at focal point of cloud curvature	Use Spiral Arc Length	Eye	E _{No}			E _{Adj}	Use Size Overcast	Use Surrounding Temperature	CF	BF	DT			Use Rules	24-Hr change	Model Expected T-Number	Pattern T-Number	Final T-Number
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) Use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	Central Cold Core	D-developing W-weakening S-same	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number	
05/1745Z	30.2N	86.5W																	
05/2345Z	29.7N	87.7W																	
06/0545Z	29.6N	87.8W																	
06/1145Z	28.1N	88.4W																	
06/1745Z	28.1N	88.5W																	
06/2345Z	28.3N	88.6W																	
07/1145Z	27.7N	88.7W																	
07/1745Z	27.8N	89.0W																	
08/1145Z	28.9N	88.1W																	

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NRL NUMBER

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TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATIONT-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

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Version F. Dvorak
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STEP	1		2A,B				2C				2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	CODE	INITIALS				
DESCRIPTION	Location		Curved Band or Shear				Eye				$E_{No} + L_{No} = CF$				CDO	Emb Centr				CCC	Trend			MET	PAT	ET	CI
RULES	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length																	Use Rules	24-Hr change			MET	PAT	ET	CI
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	Eye Embedded Distance	Eye Use Surrounding Temperature	Front Rules	Eye Temperature	Surrounding (i.e. outer) Ring Temperature	Eye Definition	Central Dense Overcast	Eye Use Surrounding Temperature	CF	BF	DT	Central Cold Core	Developing W-weakening Same	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number				
10/20/12	30.5N	143.9E	2	2	2	2	1	1					2	2			10	1	D	10	10	10	10	11.0/1.0/10/10/4	3		
11/0232Z	30.1N	142.7E															1.0		D	1.0	1.0	1.0	1.0	11.0/1.0/10/10/244	ER		
11/0832Z	29.8N	143.0E	2	2	2	2											0		S	<1	<1	<1	<1	TWTC			
11/2012	31.2N	145.6E															20		D	25	15	10	10	11.0/1.0/10/10/14			
12/0032Z	33.2N	145.6E															15		D	15	15	15	15	11.5/1.5/10/10/14	KL		
12/0832Z	34.7N	145.6E															15		D	15	15	15	15	11.5/1.5/10/10/14	KL		
12/1432Z	35.6N	144.5E															25		D	15	15	15	15	11.5/1.5/10/10/14	KL		
12/2101Z	36.1N	144.6E																						Subtropical	KL		

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TROPICAL CYCLONE ANALYSIS WORKSHEET

Vernon F. Dvorak
Sept. 1982

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATION

T-NUMBER ESTIMATE FROM MODEL AND DT CONSTRAINTS

[illegible]

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T-NUMBER ESTIMATE FROM MODEL AND DT CONSTRAINTS

Vernon F. Dvorak
Sept. 1982

T-NUMBER ESTIMATE FROM MEASUREMENTS FOR DATA T-NUMBER (DT) COMPUTATION

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TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATIONT-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

SAB

Vernon F. Dvorak
Sept. 1982

STEP	1		2A,B				2C				2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	CODE	INITIALS			
DESCRIPTION	Location		Curved Band or Shear				Eye		E _{No} +E _{Adj} =CF		CDO	Emb. Centr.				CCC	Trend	MET	PAT	FT	CI					
RULES	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length				(VIS) Use Embedded Distance		(EIR) Use Surrounding Temperature		From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF+BF=DT			Use Rules	24-Hr change			MET	PAT	FT
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) Use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	E _{No}	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	E _{Adj}	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF	BF	DT	Central Cold Core	D-developing W-weakening S-same	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number		
3/0832Z	7.7N	155.7E	X	2/10														1.0		D	1.0	1.0	1.0	1.0	T1.0/1.0/0.1.0/24 NR	MR
3/1501Z	7.9N	153.4E	X	2/10																D	1.0	1.0	1.0	1.0	T1.0/1.0/0.1.0/24 NR	MR
3/2003Z	9.0N	153.9E																-		-	4.0	4.0			TWTC	EG

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TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATIONT-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

SAB

Vernon F. Dvorak
Sept. 1982

STEP	1		2A,B				2C							2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	CODE	INITIALS
DESCRIPTION	Location		Curved Band or Shear				Eye	$E_{No} + E_{Adj} = CF$						CDO	Emb. Centr.				CCC	Trend	MET	PAT	FT	CI		
RULES	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length				(VIS) Use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Use Size	(EIR) Use Surrounding Temperature	$CF + BF = DT$			Use Rules	24-Hr change			Use Rules				
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) Use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Use Size	(EIR) Use Surrounding Temperature	CF	BF	DT	Central Cloud Count	D-developing W-weakening S-same	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number			
07/1430Z	18.8N	87.9E															1.0		D	1.0	1.0	1.0	1.0		T1.0/1.0/01.0/84hrs	EG
07/2030Z	18.7N	88.0E															1.0		D	1.0	1.0	1.0	1.0		T1.0/1.0/01.0/24hrs	KL
08/0230	18.30	87.6E															1.0		D	1.0	1.0	1.0	1.0		+1.0/1.0/01.0/12/	D
08/1430Z	18.2N	86.2E															1.0		S	1.0	1.0	1.0	1.0		T1.0/1.0/50.0/24HRS	SP
08/2100Z	18.6N	85.3E															1.0		S	1.0	1.0	1.0	1.0		T1.0/1.0/50.0/24hrs	SP
09/0230	19.0	85.2E															1.0		D	1.0	1.0	1.0	1.0		+1.0/1.0/10/10/14	A)
09/0830	19.2N	85.9E															1.0		D	1.0	1.0	1.0	1.0		T1.0/1.0/01.0/24	A)
09/1430Z	21.0N	85.5E															1.0								overland	

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TROPICAL CYCLONE ANALYSIS WORKSHEET

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATIONT-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

STEP	1	2A,B	2C	2D	2E	Data T-Number Computation	3	4	5	6	7,8	9		INITIALS								
DESCRIPTION	Location	Curved Band or Shear	Eye	$E_{No} + E_{Adj} = CF$	CDO	Emb. Centr.	CCC	Trend	MET	PAT	FT	CI										
RULES	Locate Cloud System Center at focal point of cloud curvature	Use Spiral Arc Length	Eye	E_{No}	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	Use Rules	24-Hr change	Model Expected T-Number	Pattern T-Number	Use Rules									
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	Use Rules	24-Hr change	Model Expected T-Number	Pattern T-Number	Use Rules	Final T-Number	Current Intensity Number	CODE	INITIALS
10/0230Z	19.2N	-91.1E																			11.0/10/10/10/14	10
10/0830	20.4N	91.60E																			11.5/11.5/10/10/14	10
10/1430Z	21.5N	90.9E																			12.0/2.0/1.5/24HRS	10
10/2032Z	22.0N	90.9E																			12.5/2.5/1.0/24HRS	10
11/0232Z	23.0N	91.5																			overland	10

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TROPICAL CYCLONE ANALYSIS WORKSHEET

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Vernon F. Dvorak
Sept. 1982T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER (DT) COMPUTATION

NRL NUMBER

90E

RSMC NUMBER

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T-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

STEP	1		2A,B				2C				2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	CODE	INITIALS				
DESCRIPTION	Location		Curved Band or Shear				Eye				$E_{No} + E_{Adj} = CF$				CDO	Emb. Centr.				CCC	Trend			MET	PAT	FT	CI
RULES	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length																	Use Rules	24-Hr change					Use Rules	
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Use Size Central Dense Overcast	(EIR) Use Surrounding Temperature	CF+BF=DT			Use Rules	D-developing W-weakening S-same	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number				
03/1206	15.2N	109.3W	12												10			10	10	10	10	10	T1.0/1.0/D1.0/1	AV			
03/1802	15.1N	109.8W	12												10			10	10	10	10	10	T1.0/1.0/D1.0/24	AV			
04/0002	15.8N	109.4W													1.5			1.5	1.5	1.5	1.5	1.5	T1.5/1.5/D1.0/24	MT			
04/06007	15.9N	109.1W													2.0			1.0	1.5	1.5	1.5	1.5	T1.5/1.5/D1.0/24	MT			
04/11006	15.3N	108.6W													15			15	15	15	15	15	T1.5/1.5/D1.0/24	AV			
04/18002	16.3	108.6W													0			W	-	10	10	15	T1.0/1.5/D1.0/24	AV			
05/00007	16.1N	108.8W													0			W	-	-	-	-	-	TWTC	AV		

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NRL NUMBER	NAME	RSMC NUMBER
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TROPICAL CYCLONE ANALYSIS WORKSHEET

SAB
Version F. Dvorak
Sept. 1982

T-NUMBER ESTIMATE FROM MEASUREMENTS
FOR DATA T-NUMBER DT1 COMPUTATION

T-NUMBER ESTIMATE FROM MODEL
AND DT CONSTRAINTS

STEP	1		2A,B				2C				2D	2E	Data T-Number Computation			3	4	5	6	7,8	9	CODE	INITIALS				
DESCRIPTION	Location		Curved Band or Shear				Eye				$E_N + E_M = CF$				CDO	Emb. Centr				CCC	Trend			MET	PAT	FT	CI
RULES	Locate Cloud System Center at focal point of cloud curvature		Use Spiral Arc Length																	Use Rules	24-Hr change					Use Rules	
DATE/TIME	LAT	LONG	DT1.5	DT2.5	DT3.5	DT4.5	(VIS) Use Embedded Distance	(EIR) Use Surrounding Temperature	From Rules	Eye Temperature	Surrounding (i.e. coldest) Ring Temperature	Eye Definition	Central Dense Overcast	(EIR) Use Surrounding Temperature	CF+BF=DT	CF	BF	DT	Use Rules	Developing Weakening Same	Model Expected T-Number	Pattern T-Number	Final T-Number	Current Intensity Number			
30/1745Z	24.7N	42.8W	X	3/10	BANDING												1.0		D	1.0	1.0	1.0	1.0	T1.0/1.0/D1.0/24hrs	MR		
30/2345Z	25.9N	43.0W	X	3/10													1.0		D	1.0	1.0	1.0	1.0	T1.0/1.0/D1.0/24hrs			
01/0545Z	25.7N	42.6W	X	20/10													1.0		D	1.0	1.0	1.0	1.0	T1.0/1.0/D1.0/24hrs			
01/1145Z	26.0N	42.3W	X	.35	Banding												1.5		D	1.5	ST 1.5	1.5	1.5	T1.5/1.5/D1.0/24hrs	GM		
01/1745Z	27.1N	42.1W			New center forming NW																ST 1.5			ST 1.5	GM		

San Luis Obispo 260 Km WSW 1800Z

EE: 0/0/3