レーダ観測パラメータ名　(案)

2010/12/20　尾上万里子

H･･･水平偏波, horizontally polarized wave

V･･･垂直偏波, vertically polarized wave

	日本語名	英語名	変数名	単位	データ型	long name	次元	scale factor	offset	備考
レーダ情報	レーダサイトの緯度	latitude of the radar	R_LAT	degree N	float	latitude of radar	0			
	レーダサイトの経度	longitude of the radar	R_LON	degree E	float	longitude of radar	0			
	レーダサイトの標高	altitude of the radar	R_LEV	m	float	altitude of radar	0			
	磁気偏角			degree	float	magnetic declination	0			地磁気の北と地軸の北の角度差
	レーダサイト名(ID)	radar name (observation site)	Radar_Name		char	radar name	0			KIN/GIN のように、可搬型はどうするか
観測情報	観測年月日	observation date	DAY	yyyymmdd sec	char double	observation date	0			
	観測時刻	observation time	TIME	hhnnss sec	char double	observation time	0			
	走査モード	scan mode	Scan_Mode		char	scan mode	0			PPI/RHI/POS など
	スキャン開始方位	start azimuth	Start_Az	degree	float	start azimuth	0			
	方位角(固定)	fixed azimuth	Fixed_Az	degree	float	fixed azimuth	0			RHI のみ
	仰角(固定)	fixed elevation	Fixed_El	degree	float	fixed elevation	0			PPI のみ

	送信周波数(H)	transmitted frequency of H	Freq_H	Hz	float	radar frequency of H	0	1000000		もしくは MHz 単位
観測設定	送信周波数(V)	transmitted frequency of V	Freq_V	Hz	float	radar frequency of V	0	1000000		もしくは MHz 単位
	送信電力(H)	transmitted power of H	Pt_H	mW	float	transmitted power of H	0			
	送信電力(V)	transmitted wave of V	Pt_V	mW	float	transmitted power of V	0			
	送信パルス幅(H, 長パルス)	pulse width of H (long pulse)	PW_H_L	μs	float	pulse width of H (long pulse)	0			
	送信パルス幅(H, 短パルス)	pulse width of H (short pulse)	PW_H_S	μs	float	pulse width of H (short pulse)	0			
	送信パルス幅(V, 長パルス)	pulse width of V (long pulse)	PW_V_L	μs	float	pulse width of V (long pulse)	0			
	送信パルス幅(V, 短パルス)	pulse width of V (short pulse)	PW_V_S	μs	float	pulse width of V (short pulse)	0			
	アンテナ利得(H)	antenna gain of H	Gain_H	dB	float	antenna gain of H	0			
	アンテナ利得(V)	antenna gain of V	Gain_V	dB	float	antenna gain of V	0			
	水平ビーム幅(H)	horizontal width of H beam	BWhori_H	dB	float	beam width (H, horizontal)	0			
	垂直ビーム幅(H)	vertical width of H beam	BWvert_H	dB	float	beam width (H, vertical)	0			
	水平ビーム幅(V)	horizontal width of H beam	BWhori_V	dB	float	beam width (V, horizontal)	0			

垂直ビーム幅(V)	vertical width of V beam	BWvert_V	dB	float	beam width (V, vertical)	0			
送信系損失(H)	power loss in transmission (H)	LossTr_H	dBm	float	power loss in transmission (H)	0			導波管ロスなど
送信系損失(V)	power loss in transmission (V)	LossTr_V	dBm	float	power loss in transmission (V)	0			導波管ロスなど
受信系損失(H)	power loss in reception (H)	LossRe_H	dBm	float	power loss in reception (V)	0			導波管ロスなど
受信系損失(V)	power loss in reception (V)	LossRe_V	dBm	float	power loss in transmission (V)	0			導波管ロスなど
最小受信電力 (H, high PRF)	minimum power of reception (H, high PRF)	Noise_H_Hi	dBm	float	noise level of H (high PRF)	0			
最小受信電力(H, low PRF)	minimum power of reception (H, low PRF)	Noise_H_Lo	dBm	float	noise level of H (low PRF)	0			
最小受信電力(V, high PRF)	minimum power of reception (V, high PRF)	Noise_V_Hi	dBm	float	noise level of H (high PRF)	0			
最小受信電力(V, low PRF)	minimum power of reception (V, low PRF)	Noise_V_Lo	dBm	float	noise level of H (low PRF)	0			
パルス繰り返し周波数(high)	pulse repetition period (high frequency)	PRF_Hi	pps	int	pulse repetition period (high)	0			short でもいいかも

	パルス繰り返し周波数(low)	pulse repetition period (low frequency)	PRF_Lo	pps	int	pulse repetition period (low)	0			short でもいいかも
	レイ数	number of ray	Rays		int	ray number				
	ビン数(レイ毎)	number of bin	Bins		int	bin number				
	方位角	azimuth	Azimuth	degree	float	azimuth	1(Rays)			
	仰角	elevation	Elevation	degree	float	elevation	1(Rays)			
	スキャン時刻	scan time	Scan_Time	sec from 1900	double	scan time from…	1(Rays)			
	パルス繰り返し周波数	pulse repetition period	PRF	pps	int	pulse repetition period	1(Rays)			short でもいいかも
	パルス幅	pulse width	PW	µs	float	pulse width	1(Rays)			
観測パラメータ	受信強度(H)	received power (H)	Pr_H	dBm	short	received power (H)	2(Rays, Bins)	0.01	0.0	
	受信強度(V)	received power (V)	Pr_V	dBm	short	received power (V)	2(Rays, Bins)	0.01	0.0	
	レーダ反射強度(H)	radar reflectivity (H)	ZH	dBZ	short	radar reflectivity (H)	2(Rays, Bins)	0.01	0.0	
	レーダ反射強度(V)	radar reflectivity (V)	ZV	dBZ	short	radar reflectivity (V)	2(Rays, Bins)	0.01	0.0	
	レーダ反射因子差	differential reflectivity	ZDR	dB	short	differential reflectivity	2(Rays, Bins)	0.01	0.0	
	レーダ反射因子比	difference reflectivity	ZDP	dBZ	short	difference reflectivity	2(Rays, Bins)	0.01	0.0	
	直線偏波抑圧比	linear depolarization ratio	LDRHV	dB	short	linear depolarization ratio	2(Rays, Bins)	0.01	0.0	

	偏波間位相差	differential phase	PHIDP	degree	short	differential phase	2(Rays, Bins)	0.01	180.0	
	偏波間位相差変化率	specific differential phase	KDP	degree km^{-1}	short	specific differential phase	2(Rays, Bins)	0.01	0.0	
	偏波間相関係数	correlation coefficient between H and V	RHOHV		short	correlation coefficient between H and V	2(Rays, Bins)	0.0001	0.0	
	ドップラー速度	Doppler velocity	VR	m s^{-1}	short	Doppler velocity	2(Rays, Bins)	0.01	0.0	
	速度幅	velocity width	WV	m s^{-1}	short	velocity width	2(Rays, Bins)	0.01	0.0	