

BUFR TABLES D
(Version 7 - originating center 247)

TABLE REFERENCE			TABLE REFERENCES			ELEMENT NAME
F	X	Y				
						General information about radar product
3	1	192	3	1	11	Date of observation
			3	1	12	Time of observation
			3	1	23	Latitude/longitude of top left corner of the image
			3	1	23	Latitude/longitude of top right corner of the image
			3	1	23	Latitude/longitude of bottom right corner of the image
			3	1	23	Latitude/longitude of bottom left corner of the image
			0	29	201	Projection type
			0	5	2	Latitude of radar
			0	6	2	Longitude of radar
			0	5	33	Pixel size on horizontal between columns
			0	6	33	Pixel size on horizontal between rows
			0	30	21	Number of pixels per row
			0	30	22	Number of pixels per column
						Projection information
3	1	193	0	29	199	Semi-major axis of rotation ellipsoid
			0	29	200	Semi-minor axis of rotation ellipsoid
			0	29	193	Longitude Origin
			0	29	194	Latitude Origin
			0	29	195	X-coordinate of the upper left corner of the upper left pixel of the image
			0	29	196	Y-coordinate of the upper left corner of the upper left pixel of the image
			0	29	197	1st Standard Parallel
			0	29	198	2nd Standard Parallel
						General information about radar product (high resolution)
3	1	194	3	1	11	Date of observation
			3	1	12	Time of observation
			3	1	21	Latitude/longitude of top left corner of the image
			3	1	21	Latitude/longitude of top right corner of the image
			3	1	21	Latitude/longitude of bottom right corner of the image
			3	1	21	Latitude/longitude of bottom left corner of the image
			0	29	201	Projection type
			0	5	1	Latitude of radar
			0	6	1	Longitude of radar
			0	7	1	Height of radar
			0	5	33	Pixel size on horizontal between columns
			0	6	33	Pixel size on horizontal between rows
			0	30	21	Number of pixels per row
			0	30	22	Number of pixels per column
						Heights of side view
3	13	192	1	1	0	Delayed replication of 1 descriptor
			0	31	1	Delayed descriptor replication factor
			0	10	7	Height of side view
						4 bit per pixel radar images (top view)

TABLE REFERENCE			TABLE REFERENCES			ELEMENT NAME
F	X	Y				
3	21	192	1	10	0	Delayed replication of 10 descriptors
			0	31	2	Extended delayed descriptor replication factor
			0	5	31	Row number
			1	7	0	Delayed replication of 7 descriptors
			0	31	1	Delayed descriptor replication factor
			1	2	0	Delayed replication of 2 descriptors
			0	31	1	Replication factor
			0	31	12	Extended delayed descriptor and data repetition factor
			0	30	1	Pixel value (4 bit)
			1	1	0	Delayed replication of 1 descriptor
			0	31	1	Replication factor
			0	30	1	Pixel value (4 bit)
			<i>8 bit per pixel radar images (top view)</i>			
3	21	193	1	10	0	Delayed replication of 10 descriptors
			0	31	2	Extended delayed descriptor replication factor
			0	5	31	Row number
			1	7	0	Delayed replication of 7 descriptors
			0	31	1	Delayed descriptor replication factor
			1	2	0	Delayed replication of 2 descriptors
			0	31	1	Delayed descriptor replication factor
			0	31	12	Extended delayed descriptor and data repetition factor
			0	30	2	Pixel value (8 bit)
			1	1	0	Delayed replication of 1 descriptor
			0	31	1	Delayed descriptor replication factor
			0	30	2	Pixel value (8 bit)
			<i>4 bit per pixel radar image (north-south view)</i>			
3	21	194	1	10	0	Delayed replication of 1 descriptor
			0	31	2	Extended delayed descriptor replication factor
			0	5	31	Row number
			1	7	0	Delayed replication of 7 descriptors
			0	31	1	Delayed descriptor replication factor
			1	2	0	Delayed replication of 2 descriptors
			0	31	1	Replication factor
			0	31	12	Extended delayed descriptor and data repetition factor
			0	30	1	Pixel value (4 bit)
			1	1	0	Delayed replication of 1 descriptor
			0	31	1	Replication factor
			0	30	1	Pixel value (4 bit)
			<i>8 bit per pixel radar image (north-south view)</i>			
3	21	195	1	10	0	Delayed replication of 10 descriptors
			0	31	2	Extended delayed descriptor replication factor
			0	5	31	Row number
			1	7	0	Delayed replication of 7 descriptors
			0	31	1	Delayed descriptor replication factor
			1	2	0	Delayed replication of 2 descriptors
			0	31	1	Delayed descriptor replication factor
			0	31	12	Extended delayed descriptor and data repetition factor
			0	30	2	Pixel value (8 bit)
			1	1	0	Delayed replication of 1 descriptor
			0	31	1	Delayed descriptor replication factor
			0	30	2	Pixel value (8 bit)

TABLE REFERENCE			TABLE REFERENCES			ELEMENT NAME
F	X	Y				
						<i>4 bit per pixel radar image (east-west view)</i>
3	21	196	1	10	0	Delayed replication of 10 descriptors
			0	31	2	Extended delayed descriptor replication factor
			0	5	31	Row number
			1	7	0	Delayed replication of 7 descriptors
			0	31	1	Delayed descriptor replication factor
			1	2	0	Delayed replication of 2 descriptors
			0	31	1	Delayed descriptor replication factor
			0	31	12	Extended delayed descriptor and data repetition factor
			0	30	1	Pixel value (4 bit)
			1	1	0	Delayed replication of 1 descriptor
			0	31	1	Delayed descriptor replication factor
			0	30	1	Pixel value (4 bit)
						<i>8 bit per pixel radar image (east-west view)</i>
3	21	197	1	10	0	Delayed replication of 10 descriptors
			0	31	2	Extended delayed descriptor replication factor
			0	5	31	Row number
			1	7	0	Delayed replication of 7 descriptors
			0	31	1	Delayed descriptor replication factor
			1	2	0	Delayed replication of 2 descriptors
			0	31	1	Delayed descriptor replication factor
			0	31	12	Extended delayed descriptor and data repetition factor
			0	30	2	Pixel value (8 bit)
			1	1	0	Delayed replication of 1 descriptor
			0	31	1	Delayed descriptor replication factor
			0	30	2	Pixel value (8 bit)
						<i>Rain accumulation product</i>
3	21	198	1	3	0	Delayed replication of 3 descriptors
			0	31	2	Extended delayed descriptor replication factor
			1	1	0	Delayed replication of 1 descriptor
			0	31	1	Delayed descriptor replication factor
			0	13	16	Precipitable water
						<i>Polar reflectivity data for a given elevation</i>
3	21	199	1	10	0	Delayed replication of 10 descriptors
			0	31	1	Delayed descriptor replication factor
			3	1	13	Time of scan start
			0	2	134	Antenna beam azimuth
			0	2	135	Antenna elevation
			3	21	6	Integration characteristics
			0	21	201	Range-bin size
			0	21	202	Azimuthal resolution
			0	2	193	Antenna rotation direction
			0	30	194	Number of bins along the radial
			0	30	195	Number of azimuths
			3	21	193	Compressed pixmap
						<i>Compressed rainfall accumulation data</i>
3	21	200	1	10	0	Delayed replication of 10 descriptors
			0	31	2	Extended delayed descriptor replication factor
			0	5	31	Row number
			1	7	0	Delayed replication of 7 descriptors

TABLE REFERENCE			TABLE REFERENCES			ELEMENT NAME
F	X	Y				
			0	31	1	Delayed descriptor replication factor
			1	2	0	Delayed replication of 2 descriptors
			0	31	1	Delayed descriptor replication factor
			0	31	12	Extended delayed descriptor and data replication factor
			0	13	11	Total precipitation
			1	1	0	Delayed replication of 1 descriptor
			0	31	1	Delayed descriptor replication factor
			0	13	11	Total precipitation
						<i>Polar radial wind data for a given elevation</i>
3	21	201	1	10	0	Delayed replication of 10 descriptors
			0	31	1	Delayed descriptor replication factor
			3	1	13	Time of scan start
			0	2	134	Antenna beam azimuth
			0	2	135	Antenna elevation
			3	21	6	Integration characteristics
			0	21	201	Range-bin size
			0	21	202	Azimuthal resolution
			0	2	193	Antenna rotation direction
			0	30	194	Number of bins along the radial
			0	30	195	Number of azimuths
			3	21	202	Compressed radial wind data array
						<i>Compressed radial wind data array</i>
3	21	202	1	10	0	Delayed replication of 10 descriptors
			0	31	2	Extended delayed descriptor replication factor
			0	5	31	Row number
			1	7	0	Delayed replication of 7 descriptors
			0	31	1	Delayed descriptor replication factor
			1	2	0	Delayed replication of 2 descriptors
			0	31	1	Delayed descriptor replication factor
			0	31	12	Extended delayed descriptor and data replication factor
			0	21	14	Doppler mean velocity
			1	1	0	Delayed replication of 1 descriptor
			0	31	1	Delayed descriptor replication factor
			0	21	14	Doppler mean velocity
						<i>ODIM polar volume mandatory content</i>
3	21	203	1	12	0	Delayed replication of 12 descriptors
			0	31	1	Number of scans
			3	21	205	Time period (<i>/dataset?/what/startdate, /dataset?/what/starttime, /dataset?/what/enddate and /dataset?/what/endtime</i>)
			0	30	196	Type of product (<i>/dataset?/what/product</i>)
			0	2	135	Antenna elevation (<i>/dataset?/where/elangle</i>)
			0	30	194	Number of bins along the radial (<i>/dataset?/where/nbins</i>)
			0	21	201	Range-bin size (<i>/dataset?/where/rscale</i>)
			0	21	203	Range-bin offset (<i>/dataset?/where/rstart</i>)
			0	30	195	Number of azimuths (<i>/dataset?/where/nrays</i>)
			0	2	134	Antenna beam azimuth (of first ray) (<i>/dataset?/where/algate</i>)
			1	2	0	Delayed replication of 2 descriptors
			0	31	1	Number of parameters
			0	30	196	Type of product (<i>/dataset?/data?/what/quantity</i>)
			3	21	206	ODIM compressed array
						<i>ODIM additional station identifier</i>

TABLE REFERENCE			TABLE REFERENCES			ELEMENT NAME
F	X	Y				
3	21	204	1	2	0	Delayed replication of 2 descriptors
			0	31	1	Delayed descriptor replication factor
			0	1	192	Type of station identifier (<i>RAD, ORG, PLC, CTY or CMT</i>)
			0	1	193	Station identifier
						<i>ODIM times stamps</i>
3	21	205	1	2	2	Replication of 2 descriptors (start time stamp and end time stamp)
			3	1	11	Date (year, month, day)
			3	1	13	Time (hour, minute, second)
						<i>ODIM compressed array</i>
3	21	206	0	30	197	Compression method
			1	3	0	Compressed array of IEEE double floats
			0	31	2	Number of chunks
			1	1	0	Delayed replication of 1 descriptor
			0	31	2	Size of chunk
			0	30	198	Byte element of a compressed array
						<i>List of radars included in a composite</i>
3	21	250	1	4	0	Delayed replication of 4 descriptors
			0	31	1	Replication factor
			0	1	1	WMO block number
			0	1	2	WMO station number
			0	31	31	Data present indicator
			0	33	3	Quality information