

ECMWF=101 element table

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BUFR element table for ECMWF local table version 101

Edition details

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0	0	98	0	101

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Class 1 - Identification

FXYYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
001192	1	192	MODEL VERSION NUMBER	modelVersionNumber	CODE TABLE	0	0	8	NA	0	0

001193	1	193	SIGMA_0 SIMULATION METHOD	sigma0SimulationMethod	CODE TABLE	0	0	4	NA	0	0
001194	1	194	CARRIER BALLOON/AIRCRAFT IDENTIFIER	carrierBalloonOrAircraftIdentifier	CCITT IA5	0	0	72	NA	0	0
001195	1	195	MOBILE LAND STATION IDENTIFIER	mobileLandStationIdentifier	CCITT IA5	0	0	72	NA	0	0
001196	1	196	CONSTANT LEVEL BALLOON IDENTIFIER	constantLevelBalloonIdentifier	CCITT IA5	0	0	72	NA	0	0
001197	1	197	RTP - PLATFORM TYPE	rtpPlatformType	CODE TABLE	0	0	10	NA	0	0
001198	1	198	ITP - DECK ID	itpDeckId	CODE TABLE	0	0	10	NA	0	0
001199	1	199	DUP - DUPLICATE STATUS	dupDuplicateStatus	CODE TABLE	0	0	4	NA	0	0
001201	1	201	GENERATING APPLICATION	generatingApplication	CODE TABLE	0	0	8	NA	0	0
001205	1	205	SATELLITE IDENTIFIER	satelliteIdentifier	CODE TABLE	0	0	10	NA	0	0
001208	1	208	VELOCITY OF PLATFORM, X	velocityOfPlatformX	m/s	5	-1073741824	31	NA	0	0
001209	1	209	VELOCITY OF PLATFORM, Y	velocityOfPlatformY	m/s	5	-1073741824	31	NA	0	0
001210	1	210	VELOCITY OF PLATFORM, Z	velocityOfPlatformZ	m/s	5	-1073741824	31	NA	0	0
001211	1	211	ORIGINATOR OF RETRIEVED ATMOSPHERIC CONSTITUENT	originatorOfRetrievedAtmosphericConstituent	CODE TABLE	0	0	8	NA	0	0

Class 2 - Instrumentation 2

FXYYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
002171	2	171	(TBP) MODIS AEROSOL ALGORITHM	instrumentSerialNumberForWaterTemperatureProfile	CODE TABLE	0	0	4	NA	0	0
002192	2	192	SAR AZIMUTH ANGLE	sarAzimuthAngle	deg	0	0	9	NA	0	0
002193	2	193	1D VAR SATELLITE CHANNEL (S) USED	1dVarSatelliteChannelUsed	FLAG TABLE	0	0	28	NA	0	0
002194	2	194	CONSTANT LEVEL BALLOON TYPE	constantLevelBalloonType	CODE TABLE	0	0	4	NA	0	0
002195	2	195	TYPE OF SATELLITE INSTRUMENTATION	typeOfSatelliteInstrumentation	CODE TABLE	0	0	4	NA	0	0
002196	2	196	SATELLITE CLASSIFICATION	satelliteClassification	CODE TABLE	0	0	9	NA	0	0
002197	2	197	SATELLITE CHANNEL CENTRE FREQUENCY	satelliteChannelCentreFrequency	Hz	-8	0	26	NA	0	0
002198	2	198	SATELLITE CHANNEL BAND WIDTH	satelliteChannelBandWidth	Hz	-8	0	26	NA	0	0
002199	2	199	INTEGRATED MEAN HUMIDITY COMPUTATIONAL METHOD	meanHumidityComputationalMethod	CODE TABLE	0	0	4	NA	0	0
002201	2	201	SIMULATED SATELLITE INSTRUMENT	simulatedSatelliteInstrument	FLAG TABLE	0	0	4	NA	0	0
002202	2	202	SIMULATED DATA PROCESSING TECHNIQUE USED	simulatedDataProcessingTechniqueUsed	FLAG TABLE	0	0	4	NA	0	0
002220	2	220	DATA PRODUCER	dataProducer	CODE TABLE	0	0	9	NA	0	0
002221	2	221	SEGMENT SIZE AT NADIR IN X DIRECTION	segmentSizeAtNadirInXDirection	m	0	0	18	NA	0	0
002222	2	222	SEGMENT SIZE AT NADIR IN Y DIRECTION	segmentSizeAtNadirInYDirection	m	0	0	18	NA	0	0
002223	2	223	TOVS/ATOVS/AVHRR CHANNEL NUMBER	tovsOrAtovsOrAvhrrChannelNumber	CODE TABLE	0	0	6	NA	0	0
002231	2	231	HEIGHT ASSIGNMENT METHOD	heightAssignmentMethod	CODE TABLE	0	0	4	NA	0	0
002232	2	232	TRACER CORRELATION METHOD	tracerCorrelationMethod	CODE TABLE	0	0	3	NA	0	0
002240	2	240	TYPE OF THERMODYNAMIC SENSING	typeOfThermodynamicSensing	CODE TABLE	0	0	8	NA	0	0
002241	2	241	TYPE OF ROCKET MOTOR	typeOfRocketMotor	CODE TABLE	0	0	3	NA	0	0
002242	2	242	TYPE OF WIND SENSING EQUIPMENT	typeOfWindSensingEquipment	CODE TABLE	0	0	8	NA	0	0

002243	2	243	TERMODYNAMIC CORRECTION TECHNIQUE	thermodynamicCorrectionTechnique	CODE TABLE	0	0	3	NA	0	0
002244	2	244	WIND CORRECTION TECHNIQUE	windCorrectionTechnique	CODE TABLE	0	0	3	NA	0	0
002245	2	245	METHOD OF REDUCING OF DATA	methodOfReducingOfData	CODE TABLE	0	0	4	NA	0	0
002251	2	251	RADIANCE COMPUTATIONAL METHOD	radianceComputationalMethod	CODE TABLE	0	0	4	NA	0	0
002252	2	252	SATELLITE INSTRUMENT DATA USED IN PROCESSING	satelliteInstrumentDataUsedInProcessing	FLAG TABLE	0	0	31	NA	0	0
002253	2	253	HUMIDITY COMPUTATIONAL METHOD	humidityComputationalMethod	CODE TABLE	0	0	8	NA	0	0
002254	2	254	RADIANCE TYPE	radianceType	CODE TABLE	0	0	4	NA	0	0

Class 5 - Location (horizontal - 1)

FXYYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
005193	5	193	ALONG TRACK ROW NUMBER AT 50 KM	alongTrackRowNumberAt50Km	Numeric	0	0	10	NA	0	0
005194	5	194	ALONG TRACK ROW NUMBER AT 25 KM	alongTrackRowNumberAt25Km	Numeric	0	0	11	NA	0	0
005195	5	195	ENSEMBLE MEMBER NUMBER	ensembleMemberNumber	Numeric	0	0	7	NA	0	0
005217	5	217	LOCATION OF PLATFORM, X	locationOfPlatformX	m	2	-1073741824	31	NA	0	0
005232	5	232	DIRECTION (SPECTRAL)	directionSpectral	deg	2	0	16	NA	0	0

Class 6 - Location (horizontal - 2)

FXYYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
006193	6	193	CROSS TRACK CELL NUMBER AT 50 KM	crossTrackCellNumberAt50Km	Numeric	0	0	6	NA	0	0
006194	6	194	CROSS TRACK CELL NUMBER AT 25 KM	crossTrackCellNumberAt25Km	Numeric	0	0	7	NA	0	0
006217	6	217	LOCATION OF PLATFORM, Y	locationOfPlatformY	m	2	-1073741824	31	NA	0	0
006232	6	232	WAVENUMBER (SPECTRAL)	waveNumberSpectral	rad/m	5	0	13	NA	0	0

Class 7 - Location (vertical)

FXYYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
007065	7	65	(VAL) REPRESENTATIVE HEIGHT OF SENSOR ABOVE LOCAL GROUND (OR DECEMBER)	waterPressure	m	2	0	16	NA	0	0
007217	7	217	LOCATION OF PLATFORM, Z	locationOfPlatformZ	m	2	-1073741824	31	NA	0	0

Class 8 - Significance qualifiers

FXYYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
008079	8	79	(VAL) CHANGE IN STATUS OF FOLLOWING PRODUCT	productStatus	CODE TABLE	0	0	3	NA	0	0
008193	8	193	TIME QUALIFIER	timeQualifier	CODE TABLE	0	0	6	NA	0	0
008194	8	194	TOVS/ATOVS PRODUCT QUALIFIER	tovsOrAtovsProductQualifier	CODE TABLE	0	0	4	NA	0	0
008195	8	195	DATA TYPE	dataType	CODE TABLE	0	0	7	NA	0	0
008200	8	200	NUMBER OF OBSERVATIONS	numberOfObservations	Numeric	0	0	8	NA	0	0

008222	8	222	GENERATOR SIGNIFICANCE	generatorSignificance	CODE TABLE	0	0	4	NA	0	0
008223	8	223	LAND/ICE SURFACE FLAG	landOrIceSurfaceFlag	FLAG TABLE	0	0	7	NA	0	0
008224	8	224	LAND/SEA FRACTION	landOrSeaFraction	Numeric	3	0	10	NA	0	0

Class 10 - Non-coordinate location (vertical)

FXYYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
010083	10	83	(CBS) OFF NADIR ANGLE OF THE SATELLITE FROM PLATFORM DATA	squaredOffNadirAngleOfSatelliteFromPlatformData	deg	2	-36000	17	NA	0	0
010084	10	84	(CBS) OFF NADIR ANGLE OF THE SATELLITE FROM WAVEFORM DATA	squaredOffNadirAngleOfSatelliteFromWaveformData	deg	2	-36000	17	NA	0	0
010195	10	195	HEIGHT(HIGH ACCURACY)	nonCoordinateHeight	m	1	-4096	20	NA	0	0
010196	10	196	SOLAR ZENITH ANGLE	solarZenithAngle	deg	2	-9000	15	NA	0	0
010197	10	197	ANEMOMETER HEIGHT	anemometerHeight	m	0	0	9	NA	0	0

Class 11 - Wind and turbulence

FXYYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
011192	11	192	U - COMPONENT AT 10 M	uAt10M	m/s	1	-4096	13	NA	0	0
011193	11	193	V - COMPONENT AT 10 M	vAt10M	m/s	1	-4096	13	NA	0	0
011194	11	194	W - COMPONENT AT 10 M	wAt10M	m/s	1	-4096	13	NA	0	0
011195	11	195	STEADINESS OF WIND	steadinessOfWind	%	0	0	7	NA	0	0
011196	11	196	FRICTION VELOCITY	frictionVelocity	m/s	5	0	19	NA	0	0
011201	11	201	HORIZONTAL LINE OF SIGHT COMPONENT	horizontalLineOfSightComponent	m/s	1	-4096	13	NA	0	0
011210	11	210	1D VAR WIND SPEED RETREIVED ERROR(S)	1dVarWindSpeedRetrievedError	m/s	2	0	12	NA	0	0
011211	11	211	WIND SPEED INDEPENDENT ESTIMATE OF ERROR(S)	windSpeedIndependentEstimateOfError	m/s	2	0	12	NA	0	0
011220	11	220	FORMAL UNCERTAINTY IN WIND SPEED	formalUncertaintyInWindSpeed	m/s	2	0	12	NA	0	0
011221	11	221	FORMAL UNCERTAINTY IN WIND DIRECTION	formalUncertaintyInWindDirection	deg	2	0	15	NA	0	0
011230	11	230	MAXIMUM MEAN WIND SPEED	maximumMeanWindSpeed	m/s	1	-4096	13	NA	0	0
011231	11	231	MEAN WIND SPEED	meanWindSpeed	m/s	1	-4096	13	NA	0	0
011232	11	232	MINIMUM MEAN WIND SPEED	minimumMeanWindSpeed	m/s	1	-4096	13	NA	0	0
011233	11	233	HIGHEST GUST DURING THE 10 MINUTE PERIOD PRECEDING OBSERVATION	highestGustDuringThe10MinutePeriodPrecedingObservation	m/s	1	-4096	13	NA	0	0

Class 12 - Temperature

FXYYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
012193	12	193	COLDEST CLUSTER TEMPERATURE	coldestClusterTemperature	K	1	0	12	NA	0	0
012194	12	194	RADIANCE	radiance	W m-2 sr-1 m	6	0	31	NA	0	0
012195	12	195	SPECTRAL RADIANCE	spectralRadiance	W m-2 sr-1 m	10	0	31	NA	0	0
012196	12	196	RADIANCE	radiance	W m-2 sr-1	3	0	16	NA	0	0
012197	12	197	MAXIMUM TEMPERATURE AT 2M, PAST 3 HOURS	maximumTemperatureAt2mPast3Hours	K	1	0	12	NA	0	0
012198	12	198	MINIMUM TEMPERATURE AT 2M, PAST 3 HOURS	minimumTemperatureAt2mPast3Hours	K	1	0	12	NA	0	0

012199	12	199	MAXIMUM TEMPERATURE AT 2M, PAST 6 HOURS	maximumTemperatureAt2mPast6Hours	K	1	0	12	NA	0	0
012200	12	200	MINIMUM TEMPERATURE AT 2M, PAST 6 HOURS	minimumTemperatureAt2mPast6Hours	K	1	0	12	NA	0	0

Class 13 - Hydrographic and hydrological elements

FXYYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
013192	13	192	RELATIVE HUMIDITY AT 2 M	relativeHumidityAt2M	%	0	0	8	NA	0	0
013193	13	193	RELATIVE HUMIDITY	relativeHumidity	%	0	0	8	NA	0	0
013194	13	194	TOTAL COLUMN WATER	totalColumnWater	kg m-2	2	0	11	NA	0	0
013195	13	195	RAIN RATE	rainRate	kg m-2 h-1	0	0	5	NA	0	0
013196	13	196	ANTECEDENT PRECIPITATION INDEX	antecedentPrecipitationIndex	kg m-2	0	0	7	NA	0	0
013197	13	197	TOTAL COLUMN WATER VAPOUR	totalColumnWaterVapour	kg m-2	1	0	10	NA	0	0
013198	13	198	RAIN FLAG	rainFlag	CODE TABLE	0	0	3	NA	0	0
013199	13	199	SPECIFIC HUMIDITY AT 2 M	specificHumidityAt2M	kg/kg	5	0	14	NA	0	0
013201	13	201	CLOUD LIQUID WATER	cloudLiquidWater	kg/kg	7	0	14	NA	0	0
013202	13	202	TYPE OF SURFACE	typeOfSurface	CODE TABLE	0	0	8	NA	0	0
013203	13	203	1D VAR ESTIMATE OF RAIN RATE	1dVarEstimateOfRainRate	kg m-2 h-1	2	0	12	NA	0	0
013204	13	204	SSMI INDEPENDENT ESTIMATE OF RAIN RATE	ssmiIndependentEstimateOfRainRate	kg m-2 h-1	2	0	12	NA	0	0
013205	13	205	CLOUD LIQUID WATER PATH	cloudLiquidWaterPath	kg m-2	4	0	14	NA	0	0
013206	13	206	TOTAL PRECIPITATION ICE CONTENT	totalPrecipitationIceContent	kg m-2	6	0	14	NA	0	0
013207	13	207	TOTAL CLOUD LIQUID WATER	totalCloudLiquidWater	kg m-2	6	0	14	NA	0	0
013208	13	208	SURFACE RAIN RATE (INSTANTANEOUS)	surfaceRainRateInstantaneous	kg m-2 s-1	5	0	17	NA	0	0
013209	13	209	RAIN POSSIBILITY	rainPossibility	Numeric	0	-256	9	NA	0	0
013210	13	210	1D VAR CLOUD LIQUID WATER PATH RETRIEVED ERROR(S)	1dVarCloudLiquidWaterPathRetrievedError	kg m-2	4	0	14	NA	0	0
013211	13	211	TOTAL PRECIPITABLE WATER INDEPENDENT ESTIMATE OF ERROR(S)	totalPrecipitableWaterIndependentEstimateOfError	kg m-2	2	0	11	NA	0	0
013212	13	212	CLOUD LIQUID WATER PATH INDEPENDENT ESTIMATE OF ERROR(S)	cloudLiquidWaterPathIndependentEstimateOfError	kg m-2	4	0	14	NA	0	0
013230	13	230	CONVECTIVE PRECIPITATION	convectivePrecipitation	kg m-2	1	-1	14	NA	0	0
013231	13	231	LARGE SCALE PRECIPITATION	largeScalePrecipitation	kg m-2	1	-1	14	NA	0	0
013240	13	240	AIR DENSITY	airDensity	kg m-3	3	0	10	NA	0	0
013241	13	241	CONVECTIVE AVAILABLE POTENTIAL ENERGY	cape	J/kg	1	0	17	NA	0	0

Class 15 - Physical/chemical constituents

FXYYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
015008	15	8	(VAL) SCALED VOLUMETRIC MIXING RATIO	significandOfVolumetricMixingRatio	Numeric	0	0	24	NA	0	0
015021	15	21	(VAL) SCALED INTEGRATED MASS DENSITY	integratedMassDensity	kg m-2	0	0	24	NA	0	0
015042	15	42	(VAL) REFLECTANCE	reflectance	Numeric	6	0	20	NA	0	0
015043	15	43	NUMBER OF AVERAGING KERNEL LAYERS	numberOfAveragingKernelLayers	Numeric	0	0	10	Numeric	0	4
015044	15	44	(VAL) AVERAGING KERNEL VALUE	averagingKernelValue	Numeric	6	-5000000	31	NA	0	0
015202	15	202	INTEGRATED ELECTRON DENSITY	integratedElectronDensity	m-2	3	13000	12	NA	0	0

Class 20 - Observed phenomena

FXYYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
020079	20	79	(VAL) SNOW/ICE CRYSTALS INDICATOR	snowOrIceCrystalsIndicator	FLAG TABLE	0	0	2	NA	0	0
020192	20	192	SPECIAL PHENOMENA	specialPhenomena	CODE TABLE	0	0	14	NA	0	0
020193	20	193	CLOUD AMOUNT IN SEGMENT	cloudAmountInSegment	%	0	0	7	NA	0	0
020194	20	194	AMOUNT OF SEGMENT CLOUD FREE	amountOfSegmentCloudFree	%	0	0	7	NA	0	0
020215	20	215	PRESSURE AT THE BASE OF CLOUD	pressureAtTheBaseOfCloud	Pa	-1	0	14	NA	0	0
020250	20	250	CALCULATED SURFACE TYPE	calculatedSurfaceType	CODE TABLE	0	0	5	NA	0	0
020251	20	251	ICE AGE	iceAge	CODE TABLE	0	0	3	NA	0	0
020252	20	252	ICE EDGE	iceEdge	CODE TABLE	0	0	3	NA	0	0
020253	20	253	SURFACE TYPE	surfaceType	CODE TABLE	0	0	3	NA	0	0
020254	20	254	ICE CONCENTRATION	iceConcentration	%	0	0	7	NA	0	0

Class 21 - Radar data

FXYYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
021192	21	192	RADAR BACK SCATTER	radarBackScatter	dB	2	-5000	13	NA	0	0
021193	21	193	NOISE FIGURE	noiseFigure	%	0	0	7	NA	0	0
021194	21	194	BACKGROUND NOISE LEVEL	backgroundNoiseLevel	Numeric	0	0	8	NA	0	0
021195	21	195	MISSING PACKET COUNTER	missingPacketCounter	Numeric	0	-127	8	NA	0	0
021196	21	196	UWA PRODUCT CONFIDENCE	uwaProductConfidence	FLAG TABLE	0	0	12	NA	0	0
021197	21	197	UWI PRODUCT CONFIDENCE	uwiProductConfidence	FLAG TABLE	0	0	12	NA	0	0
021198	21	198	URA PRODUCT CONFIDENCE	uraProductConfidence	FLAG TABLE	0	0	8	NA	0	0
021199	21	199	UAT PRODUCT CONFIDENCE	uatProductConfidence	FLAG TABLE	0	0	7	NA	0	0
021200	21	200	MWI PRODUCT CONFIDENCE	mwipProductConfidence	FLAG TABLE	0	0	15	NA	0	0
021201	21	201	PEAKINESS	peakiness	Numeric	0	0	16	NA	0	0
021202	21	202	ALTIMETER CALIBRATION STATUS	altimeterCalibrationStatus	FLAG TABLE	0	0	4	NA	0	0
021203	21	203	ALTIMETER INSTRUMENT MODE	altimeterInstrumentMode	FLAG TABLE	0	0	9	NA	0	0
021204	21	204	MULTI/SINGLE VIEW DIFFERENCE	multiOrSingleViewDifference	K	2	-512	10	NA	0	0
021205	21	205	SPECTRAL INTENSITY	spectralIntensity	Numeric	0	0	8	NA	0	0
021206	21	206	REPRESENTATION OF INTENSITY	representationOfIntensity	CODE TABLE	0	0	3	NA	0	0
021207	21	207	ALTITUDE CORRECTION (IONOSPHERE)	altitudeCorrectionIonosphere	m	3	0	14	NA	0	0
021208	21	208	ALTITUDE CORRECTION (DRY TROPOSPHERE)	altitudeCorrectionDryTroposphere	m	3	0	9	NA	0	0
021209	21	209	ALTITUDE CORRECTION (WET TROPOSPHERE)	altitudeCorrectionWetTroposphere	m	3	2000	10	NA	0	0
021210	21	210	ALTITUDE CORRECTION (CALIBRATION CONSTANT)	altitudeCorrectionCalibrationConstant	m	3	0	11	NA	0	0
021211	21	211	OPEN LOOP CORRECTION (HTL)	openLoopCorrectionHtl	m	3	0	10	NA	0	0
021212	21	212	OPEN LOOP CORRECTION (AGC)	openLoopCorrectionAgc	dB	3	-3000	14	NA	0	0
021213	21	213	AMBIGUITY REMOVAL CONFIDENCE	ambiguityRemovalConfidence	%	0	0	7	NA	0	0

021214	21	214	UAT QUALITY SUMMARY	uatQualitySummary	CODE TABLE	0	0	3	NA	0	0
021215	21	215	UAT ACROSS-TRACK BAND NO.	uatAcrossTrackBandNo	Numeric	0	0	4	NA	0	0
021222	21	222	DOPPLER SPECTRUM 0 TH MOMENT (AMPLITUDE)	dopplerSpectrum0ThMomentAmplitude	dB	0	0	7	NA	0	0
021225	21	225	PRESCAT PRODUCT CONFIDENCE	prescatProductConfidence	FLAG TABLE	0	0	6	NA	0	0
021226	21	226	BACKSCATER DISTANCE	backscatterDistance	Numeric	1	-4096	13	NA	0	0
021230	21	230	NUMBER OF VECTOR AMBIGUITIES	numberOfVectorAmbiguities	Numeric	0	0	3	NA	0	0
021231	21	231	INDEX OF SELECTED WIND VECTOR	indexOfSelectedWindVector	Numeric	0	0	3	NA	0	0
021232	21	232	TOTAL NMBER OF SIGMA-0 MEASUREMENTS	totalNumberOfSigma0Measurements	Numeric	0	0	5	NA	0	0
021233	21	233	NUMBER OF SIGMA-0 USABLE FOR WIND	numberOfSigma0UsableForWind	Numeric	0	0	5	NA	0	0
021234	21	234	LIKELIHOOD COMPUTED FOR SOLUTION	likelihoodComputedForSolution	Numeric	1	-10000	14	NA	0	0
021235	21	235	WIND VECTOR CELL QUALITY FLAG	windVectorCellQualityFlag	FLAG TABLE	0	0	3	NA	0	0
021236	21	236	NUMBER OF FORE-BEAM SIGMA-0	numberOfForeBeamSigma0	Numeric	1	0	6	NA	0	0
021237	21	237	NUMBER OF MID-BEAM V-POL SIGMA-0	numberOfMidBeamVPolSigma0	Numeric	1	0	6	NA	0	0
021238	21	238	NUMBER OF MID-BEAM H-POL SIGMA-0	numberOfMidBeamHPolSigma0	Numeric	1	0	6	NA	0	0
021239	21	239	NUMBER OF AFT-BEAM SIGMA-0	numberOfAftBeamSigma0	Numeric	1	0	6	NA	0	0
021240	21	240	NORMALIZED RADAR CROSS SECTION	normalizedRadarCrossSection	Numeric	2	-10000	14	NA	0	0
021241	21	241	Kp VARIANCE COEFFICIENT (ALPHA)	kpVarianceCoefficientAlpha	Numeric	5	0	14	NA	0	0
021242	21	242	Kp VARIANCE COEFFICIENT (BETHA)	kpVarianceCoefficientBeta	Numeric	6	0	16	NA	0	0
021243	21	243	Kp VARIANCE COEFFICIENT (GAMMA)	kpVarianceCoefficientGamma	Numeric	6	0	16	NA	0	0
021244	21	244	SIGMA-0 QUALITY FLAG	sigma0QualityFlag	FLAG TABLE	0	0	15	NA	0	0

Class 22 - Oceanographic elements

FXYYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
022192	22	192	SPECTRAL PERIOD	spectralPeriod	s	2	0	13	NA	0	0
022193	22	193	MEAN WAVENUMBER	meanWavenumber	/m	5	0	15	NA	0	0
022194	22	194	PEAK WAVENUMBER	peakWavenumber	/m	5	0	15	NA	0	0
022195	22	195	MEAN WAVE PROPAGATION DIRECTION	meanWavePropagationDirection	deg	1	0	13	NA	0	0
022196	22	196	PEAK WAVE PROPAGATION DIRECTION	peakWavePropagationDirection	deg	1	0	13	NA	0	0
022197	22	197	DIRECTION SPREAD	directionSpread	deg	1	0	13	NA	0	0
022198	22	198	VARIANCE SPECTRAL DENSITY	varianceSpectralDensity	m2 rad-1 s	4	0	18	NA	0	0
022199	22	199	CORRELATION COEFF OF SIMULATED FG AND OBSERVED SAR SPECTRUM	correlationCoffOfSimulatedFgAndObservedSarSpectrum	Numeric	4	-10000	15	NA	0	0
022200	22	200	CORRELATION COEFF OF SIMULATED BF AND OBSERVED SAR SPECTRUM	correlationCoffOfSimulatedBfAndObservedSarSpectrum	Numeric	4	-10000	15	NA	0	0
022201	22	201	CORRELATION COEFF OF OCEAN WAVE FG AND EXTRACTED WAVE SPECTRUM	correlationCoffOfOceanWaveFgAndExtractedWaveSpectrum	Numeric	4	-10000	15	NA	0	0
022202	22	202	ERROR BETWEEN FIRST GUESS AND OBSERVED SAR	errorBetweenFirstGuessAndObservedSar	Numeric	5	0	21	NA	0	0
022203	22	203	ERROR BETWEEN SIMULATED AND OBSERVED SAR	errorBetweenSimulatedAndObservedSar	Numeric	5	0	21	NA	0	0
022204	22	204	MEAN PERIOD OF WAVES	meanPeriodOfWaves	s	2	0	13	NA	0	0

022205	22	205	SPECTRAL DENSITY	spectralDensity	m2 rad-1 s	4	0	25	NA	0	0
022206	22	206	PEAK PERIOD OF WAVES	peakPeriodOfWaves	s	2	0	13	NA	0	0
022207	22	207	MEAN WAVE PERIOD	meanWavePeriod	s	1	0	10	NA	0	0
022208	22	208	PEAK PERIOD OF 1D SPECTRA	peakPeriodOf1dSpectra	s	1	0	10	NA	0	0
022209	22	209	COEFFICIENT OF DRAG WITH WAVES	coefficientOfDragWithWaves	Numeric	6	0	13	NA	0	0
022210	22	210	MEAN SQUARE SLOPE OF WAVES	meanSquareSlopeOfWaves	Numeric	4	-10000	14	NA	0	0
022211	22	211	COEFFICIENT OF DRAG WITH WAVES	coefficientOfDragWithWaves	Numeric	6	0	17	NA	0	0
022243	22	243	STANDARD DEVIATION SIGNIFICANT WAVE HEIGHT	significantWaveHeightStandardDeviation	m	2	0	10	NA	0	0

Class 25 - Processing information

FXXYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
025193	25	193	ATTENUATION CORRECTION ON SIGMA0	attenuationCorrectionOnSigma0	dB	3	0	14	NA	0	0
025194	25	194	MAJOR FRAME COUNT	majorFrameCount	Numeric	0	0	4	NA	0	0
025197	25	197	ANTENNA CORRECTIONS VERSION NUMBER	antennaCorrectionsVersionNumber	Numeric	0	0	5	NA	0	0
025198	25	198	LOG (TEMP-RAD CENTRAL WAVE NUMBER)	logTempRadCentralWaveNumber	/m	8	0	30	NA	0	0
025199	25	199	BANDWIDTH CORRECTION COEFFICIENT 1	bandwidthCorrectionCoefficient1	Numeric	4	-10000	15	NA	0	0
025200	25	200	BANDWIDTH CORRECTION COEFFICIENT 2	bandwidthCorrectionCoefficient2	Numeric	5	0	17	NA	0	0
025201	25	201	ALBEDO-RAD SOLAR FILTERED IRRADIANCE	albedoRadSolarFilteredIrradiance	Numeric	4	0	24	NA	0	0
025202	25	202	ALBEDO-RAD EQUIVALENT FILTER WIDTH	albedoRadEquivalentFilterWidth	Numeric	10	0	14	NA	0	0
025203	25	203	SCAN LINE STATUS FLAGS FOR ATOVS	scanLineStatusFlagsForAtovs	FLAG TABLE	0	0	31	NA	0	0
025204	25	204	SCAN LINE QUALITY FLAGS FOR ATOVS	scanLineQualityFlagsForAtovs	FLAG TABLE	0	0	31	NA	0	0
025205	25	205	CHANNEL QUALITY FLAGS FOR ATOVS	channelQualityFlagsForAtovs	FLAG TABLE	0	0	31	NA	0	0
025206	25	206	FOV QUALITY FLAGS FOR ATOVS	fovQualityFlagsForAtovs	FLAG TABLE	0	0	31	NA	0	0

Class 26 - Non-coordinate location (time)

FXXYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
026193	26	193	YEAR	nonCoordinateYear	a	0	0	12	NA	0	0
026194	26	194	MONTH	nonCoordinateMonth	mon	0	0	4	NA	0	0
026195	26	195	DAY	nonCoordinateDay	d	0	0	6	NA	0	0
026196	26	196	HOURLY	hour	h	0	0	5	NA	0	0
026197	26	197	MINUTE	minute	min	0	0	6	NA	0	0
026198	26	198	SECOND	second	s	0	0	6	NA	0	0
026200	26	200	LOCATION WITHIN ASSIMILATION WINDOW IN TIME	locationWithinAssimilationWindowInTime	Numeric	6	0	20	NA	0	0
026201	26	201	HOURS INCLUDED	hoursIncluded	FLAG TABLE	0	0	26	NA	0	0

Class 27 - Non-coordinate location (horizontal - 1)

FXXYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
027193	27	193	SOLAR AZIMUTH	solarAzimuth	deg	2	0	16	NA	0	0

Class 30 - Image

FXXYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
030193	30	193	POSITION NUMBER ALONG SCAN	positionNumberAlongScan	Numeric	0	0	8	NA	0	0

Class 31 - Data description operator qualifiers

FXXYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
031192	31	192	DATA PRESENT INDICATOR	dataPresentIndicator	Numeric	0	0	1	NA	0	0

Class 33 - Quality information

FXXYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
033054	33	54	(TBP) OVERALL QUALITY OF RETRIEVED ATMOSPHERIC PROFILE	overallQualityOfRetrievedAtmosphericProfile	CODE TABLE	0	0	3	NA	0	0
033192	33	192	TEM1 CONFIDENCE	tem1Confidence	%	0	0	7	NA	0	0
033193	33	193	DATA QUALITY 3 BIT CODE	dataQuality3BitCode	CODE TABLE	0	0	3	NA	0	0
033194	33	194	DATA QUALITY 2 BIT CODE	dataQuality2BitCode	CODE TABLE	0	0	2	NA	0	0
033195	33	195	ECMWF SAR QC INDICATOR	ecmwfSarQcIndicator	CODE TABLE	0	0	5	NA	0	0
033196	33	196	ECMWF WAM QC INDICATOR	ecmwfWamQcIndicator	CODE TABLE	0	0	2	NA	0	0
033197	33	197	ECMWF SAR INVERSION QC INDICATOR	ecmwfSarInversionQcIndicator	CODE TABLE	0	0	3	NA	0	0
033198	33	198	MINIMUM COST	minimumCost	Numeric	4	0	14	NA	0	0
033199	33	199	1D VAR TOTAL PRECIPITABLE WATER RETRIEVED ERROR(S)	1dVarTotalPrecipitableWaterRetrievedError	kg m-2	2	0	11	NA	0	0
033200	33	200	ANALYSIS REPORT EVENTS	analysisReportEvents	FLAG TABLE	0	0	31	NA	0	0
033201	33	201	ANALYSIS REPORT STATUS EVENT	analysisReportStatusEvent	FLAG TABLE	0	0	13	NA	0	0
033202	33	202	ANALYSIS DATUM EVENT FLAGS (1)	analysisDatumEventFlags1	FLAG TABLE	0	0	31	NA	0	0
033203	33	203	ANALYSIS DATUM EVENT FLAGS (2)	analysisDatumEventFlags2	FLAG TABLE	0	0	11	NA	0	0
033204	33	204	ANALYSIS DATUM STATUS FLAGS	analysisDatumStatusFlags	FLAG TABLE	0	0	21	NA	0	0
033205	33	205	VARIATIONAL ANALYSIS BLACK LIST FLAG	variationalAnalysisBlackListFlag	CODE TABLE	0	0	4	NA	0	0
033206	33	206	VARIATIONAL ANALYSIS QUALITY CONTROL FLAG	variationalAnalysisQualityControlFlag	CODE TABLE	0	0	4	NA	0	0
033207	33	207	VARIATIONAL ANALYSIS DEPARTURE FLAG	variationalAnalysisDepartureFlag	CODE TABLE	0	0	4	NA	0	0
033208	33	208	VARIATIONAL ANALYSIS FIRST GUESS CHECK FLAG	variationalAnalysisFirstGuessCheckFlag	CODE TABLE	0	0	4	NA	0	0
033209	33	209	VARIATIONAL ANALYSIS FINAL FLAG	variationalAnalysisFinalFlag	CODE TABLE	0	0	4	NA	0	0
033210	33	210	INCREMENTAL VARIATIONAL ANALYSIS UPDATE NUMBER	incrementalVariationalAnalysisUpdateNumber	Numeric	0	0	7	NA	0	0
033211	33	211	MINIMISATION SIMULATION NUMBER	minimisationSimulationNumber	Numeric	0	0	10	NA	0	0
033212	33	212	1D VAR ITERATION NUMBER	1dVarIterationNumber	Numeric	0	0	10	NA	0	0
033213	33	213	1D VAR RADIANCE COST	1dVarRadianceCost	Numeric	1	-1000	11	NA	0	0
033214	33	214	1D VAR ERROR(S)	1dVarErrorS	FLAG TABLE	0	0	11	NA	0	0
033215	33	215	DIRECTIONAL SKILL	directionalSkill	Numeric	1	-4096	13	NA	0	0

033216	33	216	1D VAR SURFACE TYPE QUALITY CONTROL	1dVarSurfaceTypeQualityControl	CODE TABLE	0	0	3	NA	0	0
033217	33	217	1D VAR FAILURE INDICATOR	1dVarFailureIndicator	CODE TABLE	0	0	2	NA	0	0
033218	33	218	1D VAR ESTIMATE OF SCATTERING	1dVarEstimateOfScattering	Numeric	2	0	12	NA	0	0
033219	33	219	SSMI INDIPENDENT SCATTERING INDEX	ssmiIndependentScatteringIndex	Numeric	2	-50000	16	NA	0	0
033220	33	220	VARIATIONAL ANALYSIS REPORT EVENTS (1)	variationalAnalysisReportEvents1	FLAG TABLE	0	0	31	NA	0	0
033221	33	221	VARIATIONAL ANALYSIS SYNOP EVENTS (2)	variationalAnalysisSynopEvents2	FLAG TABLE	0	0	31	NA	0	0
033222	33	222	VARIATIONAL ANALYSIS AIREP EVENTS (2)	variationalAnalysisAirepEvents2	FLAG TABLE	0	0	31	NA	0	0
033223	33	223	VARIATIONAL ANALYSIS SATOB EVENTS (2)	variationalAnalysisSatobEvents2	FLAG TABLE	0	0	31	NA	0	0
033224	33	224	VARIATIONAL ANALYSIS DRIBU EVENTS (2)	variationalAnalysisDribuEvents2	FLAG TABLE	0	0	31	NA	0	0
033225	33	225	VARIATIONAL ANALYSIS TEMP EVENTS (2)	variationalAnalysisTempEvents2	FLAG TABLE	0	0	31	NA	0	0
033226	33	226	VARIATIONAL ANALYSIS PILOT EVENTS (2)	variationalAnalysisPilotEvents2	FLAG TABLE	0	0	31	NA	0	0
033227	33	227	VARIATIONAL ANALYSIS SATEM /TOVS EVENTS (2)	variationalAnalysisSatemOrTovsEvents2	FLAG TABLE	0	0	31	NA	0	0
033228	33	228	VARIATIONAL ANALYSIS PAOB EVENTS (2)	variationalAnalysisPaobEvents2	FLAG TABLE	0	0	31	NA	0	0
033229	33	229	VARIATIONAL ANALYSIS SCATTEROMETER EVENTS (2)	variationalAnalysisScatterometerEvents2	FLAG TABLE	0	0	31	NA	0	0
033230	33	230	VARIATIONAL ANALYSIS RAW RADIANCES EVENTS (2)	variationalAnalysisRawRadiancesEvents2	FLAG TABLE	0	0	31	NA	0	0
033231	33	231	PRESAT SUMMARY FLAGS	presatSummaryFlags	FLAG TABLE	0	0	6	NA	0	0
033232	33	232	REPORT BLACK LIST EVENTS	reportBlackListEvents	FLAG TABLE	0	0	31	NA	0	0
033233	33	233	VARIATIONAL ANALYSIS REPORT STATUS	variationalAnalysisReportStatus	FLAG TABLE	0	0	31	NA	0	0
033234	33	234	VARIATIONAL ANALYSIS DATUM STATUS	variationalAnalysisDatumStatus	FLAG TABLE	0	0	31	NA	0	0
033236	33	236	VARIATIONAL ANALYSIS DATUM EVENTS (1)	variationalAnalysisDatumEvents1	FLAG TABLE	0	0	31	NA	0	0
033237	33	237	VARIATIONAL ANALYSIS SYNOP DATUM EVENTS (2)	variationalAnalysisSynopDatumEvents2	FLAG TABLE	0	0	31	NA	0	0
033238	33	238	VARIATIONAL ANALYSIS AIREP DATUM EVENTS (2)	variationalAnalysisAirepDatumEvents2	FLAG TABLE	0	0	31	NA	0	0
033239	33	239	VARIATIONAL ANALYSIS SATOB DATUM EVENTS (2)	variationalAnalysisSatobDatumEvents2	FLAG TABLE	0	0	31	NA	0	0
033240	33	240	VARIATIONAL ANALYSIS DRIBU DATUM EVENTS (2)	variationalAnalysisDribuDatumEvents2	FLAG TABLE	0	0	31	NA	0	0
033241	33	241	GROSS ERROR PROBABILITY	grossErrorProbability	Numeric	3	0	10	NA	0	0
033242	33	242	GROSS ERROR INDICATOR	grossErrorIndicator	CODE TABLE	0	0	2	NA	0	0
033243	33	243	VARIATIONAL ANALYSIS TEMP DATUM EVENTS (2)	variationalAnalysisTempDatumEvents2	FLAG TABLE	0	0	31	NA	0	0
033244	33	244	VARIATIONAL ANALYSIS PILOT DATUM EVENTS (2)	variationalAnalysisPilotDatumEvents2	FLAG TABLE	0	0	31	NA	0	0
033245	33	245	VARIATIONAL ANALYSIS SATEM /TOVS DATUM EVENTS (2)	variationalAnalysisSatemOrTovsDatumEvents2	FLAG TABLE	0	0	31	NA	0	0
033246	33	246	VARIATIONAL ANALYSIS PAOB DATUM EVENTS (2)	variationalAnalysisPaobDatumEvents2	FLAG TABLE	0	0	31	NA	0	0
033247	33	247	VARIATIONAL ANALYSIS SCATTEROMETER DATUM EVENTS (2)	variationalAnalysisScatterometerDatumEvents2	FLAG TABLE	0	0	31	NA	0	0
033248	33	248	VARIATIONAL ANALYSIS RAW RADIANCES DATUM EVENTS (2)	variationalAnalysisRawRadiancesDatumEvent s2	FLAG TABLE	0	0	31	NA	0	0
033249	33	249	DATUM BLACK LIST EVENTS	datumBlackListEvents	FLAG TABLE	0	0	31	NA	0	0
033250	33	250	PROBABILITY OF GROSS ERROR	probabilityOfGrossError	Numeric	6	0	20	NA	0	0
033251	33	251	RANGE OF POSSIBLE VALUES	rangeOfPossibleValues	Numeric	2	0	14	NA	0	0

033252	33	252	MANUAL-AUTOMATIC QUALITY CONTROL	manualAutomaticQualityControl	CODE TABLE	0	0	4	NA	0	0
033253	33	253	NOMINAL CONFIDENCE THRESHOLD	nominalConfidenceThreshold	%	0	0	7	NA	0	0
033254	33	254	WIND CORRELATION METHOD	windCorrelationMethod	FLAG TABLE	0	0	20	NA	0	0

Class 49 - Unknown entry 49

FXXYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
049193	49	193	SAR INVERSION QC FLAGS	sarInversionQcFlags	FLAG TABLE	0	0	15	NA	0	0
049194	49	194	ALTIMETER WAVE HEIGHT QC FLAFS	altimeterWaveHeightQcFlags	FLAG TABLE	0	0	15	NA	0	0

Class 62 - Unknown entry 62

FXXYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
062190	62	190	STATISTICS APPLICATION	statisticsApplication	CODE TABLE	0	0	8	NA	0	0
062191	62	191	TYPE OF STATISTICS	typeOfStatistics	CODE TABLE	0	0	8	NA	0	0

Class 63 - Unknown entry 63

FXXYYY	Class (XX)	Code (YYY)	Name	Key	Units	Scale	Reference	Width	CREX units	CREX scale	CREX width
063190	63	190	APPLICATION DERIVING SUBSTITUTE OR ALTERNATIVE VALUE	applicationDerivingSubstituteOrAlternativeValue	CODE TABLE	0	0	8	NA	0	0