I.4-DATATYPE-TS CALIBRATION SYSTEM HISTORICAL DATA AND OPERATIONAL FORECAST SYSTEM PROCESSED DATA BASE DATA TYPE CODES

The time series data type codes are used to describe the attributes of the time series data stored in the Calibration System historical data files and the Operational Forecast System Processed Data Base.

The following tables are included in this Chapter:

- data types sorted by description
- data types sorted by type code
- data types and their attributes
- Forecast Component data type codes

The following headings and abbreviations are used in the tables:

- APPL Code (application code - system that can use data type): CALB = Calibration system only
FCST $=$ Forecast system only
BOTH $=$ Calibration and Forecast systems
- Description (description of data type)
- DIMN Code (data dimensions code)
- MISS ALOW (missing allowed indicator)
- NPER (number of values per time interval)
- PROC Code (code for component that can write data type):

PP = Preprocessor Component
FC $=$ Forecast Component

- SPAC Code (spacial code):

A = areal
$\mathrm{P}=$ point
$A / P=$ areal or point

- FCST Unit (units in which Forecast Component does computations)
- Time Code:

ACCM = accumulated
MEAN = mean average
INST = instantaneous

- Type Code (data type code)

Table 1. Data types sorted by description

| Type |  | APPL |
| :---: | :---: | :---: |
| Code | Description | Code |
| TIDE | ADJUSTED TIDE OBSERVED+PROJECTED INSTANTANEOUS | BOTH |
| MAT | AIR TEMPERATURE AREAL MEAN | BOTH |
| TAMX | AIR TEMPERATURE MAXIMUM | BOTH |
| TAMN | AIR TEMPERATURE MINIMUM | BOTH |
| TAIN | AIR TEMPERATURE POINT INSTANTANEOUS | CALB |
| TAVG | AIR TEMPERATURE POINT MEAN | BOTH |
| AEIS | ANTECEDENT EVAPORATION INDEX | BOTH |
| AFAI | ANTECEDENT FLOW INDEX FUNCTION GLACIER | BOTH |
| AIAI | ANTECEDENT INDEX | BOTH |
| APIS | ANTECEDENT PRECIPITATION INDEX | BOTH |
| ATI | ANTECEDENT TEMPERATURE INDEX | BOTH |
| MAPI | API AREAL MEAN | FCST |
| APIC | API-CONT MODEL CONTENTS API,AI,SMI,BFSC,BFI | FCST |
| KP | ASSIMILATOR PRECIPITATION MULTIPLIER | FCST |
| SKYI | CLOUD COVER INSTANTANEOUS | CALB |
| SKYM | CLOUD COVER MIDNIGHT-MIDNIGHT MEAN | CALB |
| SKYD | CLOUD COVER SUNRISE-SUNSET MEAN | CALB |
| CVX | COEFFICIENT OF VARIATION INSTANTANEOUS | BOTH |
| TDIN | DEW-POINT POINT INSTANTANEOUS | CALB |
| TDME | DEW-POINT POINT MEAN | CALB |
| DFAC | DIMENSIONLESS FACTOR SIMULATED INSTANTANEOUS | BOTH |
| DQIE | DIVERSION FLOW OBSERVED+PROJECTED INSTANTANEOUS | BOTH |
| DQIN | DIVERSION FLOW OBSERVED+PROJECTED INSTANTANEOUS | BOTH |
| DQMP | DIVERSION FLOW OBSERVED+PROJECTED MEAN | BOTH |
| DQME | DIVERSION FLOW OBSERVED+PROJECTED MEAN | BOTH |
| SDQI | DIVERSION FLOW SIMULATED INSTANTANEOUS | BOTH |
| SDQM | DIVERSION FLOW SIMULATED MEAN | BOTH |
| PCFD | DIVERTED FLOW FROM CHANNEL PERCENT | BOTH |
| EPL | EVAPORATION LAKE | CALB |
| EPAN | EVAPORATION PAN | CALB |
| MAPE | EVAPOTRANSPIRATION POTENTIAL AREAL MEAN | BOTH |
| MOPE | EVAPOTRANSPIRATION POTENTIAL FROM MONTHLY MEAN | BOTH |
| PTPE | EVAPOTRANSPIRATION POTENTIAL POINT | BOTH |
| NFBD | FLASH BOARDS DOWN NUMBER OBSERVED+PROJECTED | BOTH |
| ZELV | FREEZING LEVEL OBSERVED+PROJECTED | BOTH |
| FGDP | FROST DEPTH OBSERVED | FCST |
| FEIX | FROST EFFICIENCY INDEX SIMULATED | BOTH |
| FGIX | FROST INDEX SIMULATED INSTANTANEOUS | BOTH |
| GCS | GATE CONTROL SWITCH | BOTH |
| GTCS | GATE CONTROL SWITCH | BOTH |
| GATE | GATE OPENINGS OBSERVED+PROJECTED | BOTH |
| GOUT | GLACIER OUTFLOW MELT | BOTH |
| MAPG | GRID PRECIPITATION AREAL MEAN | FCST |
| MAPX | GRIDDED PRECIPITATION AREAL MEAN | FCST |
| HDAT | HOURS TO DATE OF AN OBSERVATION | FCST |
| ICET | ICE THICKNESS OBSERVED | FCST |
| LELV | LAKE ELEVATION OBSERVED | BOTH |
| LAKH | LAKE HEIGHT OBSERVED | BOTH |
| TID | OBSERVED TIDE OBSERVED INSTANTANEOUS | BOTH |
| OPKS | PEAK WITHIN FIXED WINDOW OBSERVED | FCST |

Table 1. Data types sorted by description

| Type Code | Description | APPI <br> Code |
| :---: | :---: | :---: |
| SPKS | PEAK WITHIN FIXED WINDOW SIMULATED | FCST |
| RQGM | POWER GENERATION OBSERVED MEAN | BOTH |
| MAP | PRECIPITATION AREAL MEAN | BOTH |
| PTPX | PRECIPITATION POINT MISSING ALLOWED | BOTH |
| PTPP | PRECIPITATION POINT MISSING NOT ALLOWED | BOTH |
| RAIM | PRECIPITATION RAIN+MELT | BOTH |
| PTPS | PRECIPITATION SNOWFALL (FRACTION) | BOTH |
| RADL | RADIATION ATMOSPHERIC LONGWAVE POINT | CALB |
| RADS | RADIATION INCOMING SOLAR POINT | CALB |
| RADN | RADIATION NET POINT | CALB |
| RADR | RADIATION REFLECTED SOLAR POINT | CALB |
| RADT | RADIATION TOTAL HEMISPHERIC | CALB |
| RSEL | RAIN-SNOW ELEVATION | BOTH |
| BFR | RECESSION COEFFICIENT BASEFLOW | FCST |
| FBEL | RESERVOIR FOREBAY ELEVATION OBSERVED | BOTH |
| RQIN | RESERVOIR INFLOW OBSERVED INSTANTANEOUS | BOTH |
| RQIM | RESERVOIR INFLOW OBSERVED MEAN | BOTH |
| RQIE | RESERVOIR OUTFLOW OBSERVED+PROJECTED INSTANTANEOUS | BOTH |
| RQOT | RESERVOIR OUTFLOW OBSERVED+PROJECTED INSTANTANEOUS | BOTH |
| RQMP | RESERVOIR OUTFLOW OBSERVED+PROJECTED MEAN | BOTH |
| RQME | RESERVOIR OUTFLOW OBSERVED+PROJECTED MEAN | BOTH |
| RQSW | RESERVOIR OUTFLOW SPILLWAY OBSERVED | BOTH |
| PELE | RESERVOIR POOL ELEVATION ADJUSTED | BOTH |
| PELV | RESERVOIR POOL ELEVATION OBSERVED | BOTH |
| SPEL | RESERVOIR POOL STAGE SIMULATED | BOTH |
| RSTE | RESERVOIR STORAGE ADJUSTED | BOTH |
| CSTO | RESERVOIR STORAGE CHANGE | BOTH |
| RSTO | RESERVOIR STORAGE OBSERVED | BOTH |
| SRSO | RESERVOIR STORAGE SIMULATED | BOTH |
| QINE | RIVER DISCHARGE ADJUSTED INSTANTANEOUS | BOTH |
| AQME | RIVER DISCHARGE ADJUSTED MEAN | BOTH |
| QINH | RIVER DISCHARGE COMPUTED FROM STAGE INSTANTANEOUS | BOTH |
| QIN | RIVER DISCHARGE OBSERVED INSTANTANEOUS | BOTH |
| QME | RIVER DISCHARGE OBSERVED MEAN | BOTH |
| SQIB | RIVER DISCHARGE SIM-INST BEGINNING OF PERIOD | BOTH |
| SQIE | RIVER DISCHARGE SIM-INST END OF PERIOD | BOTH |
| SQIN | RIVER DISCHARGE SIMULATED INSTANTANEOUS | BOTH |
| SQME | RIVER DISCHARGE SIMULATED MEAN | BOTH |
| STGE | RIVER STAGE ADJUSTED | BOTH |
| STG | RIVER STAGE OBSERVED | BOTH |
| SSTG | RIVER STAGE SIMULATED | BOTH |
| SVIN | RIVER VELOCITY SIMULATED MEAN | BOTH |
| MARO | RUNOFF AREAL MEAN | FCST |
| ROCL | RUNOFF COMPONENTS (SAC) | FCST |
| GWRO | RUNOFF GROUNDWATER (BASEFLOW) | FCST |
| INFW | RUNOFF INFLOW TO CHANNEL | BOTH |
| SURO | RUNOFF STORM | FCST |
| PSRO | RUNOFF SURFACE PERCENT | BOTH |
| STID | SIMULATED TIDE NOS GENERATED INSTANTANEOUS | BOTH |
| PLDS | SIMULATED VALUE AT FIXED LEAD | FCST |

Table 1. Data types sorted by description

| Type |  | APPL |
| :---: | :---: | :---: |
| Code | Description | Code |
| AESC | SNOW COVER AREAL EXTENT OBSERVED | BOTH |
| SASC | SNOW COVER AREAL EXTENT SIMULATED | BOTH |
| SNOG | SNOW COVER DEPTH OBSERVED | BOTH |
| SNSG | SNOW COVER DEPTH SIMULATED | BOTH |
| SCOT | SNOW COVER OUTFLOW | CALB |
| TSIN | SNOW COVER TEMPERATURE POINT-INSTANTANEOUS | CALB |
| MAWE | SNOW COVER WATER EQUIVALENT AREAL MEAN | BOTH |
| SNWE | SNOW COVER WATER EQUIVALENT OBSERVED | BOTH |
| SWE | SNOW COVER WATER EQUIVALENT SIMULATED | BOTH |
| SNOF | SNOWFALL DEPTH OBSERVED | BOTH |
| SMZC | SOIL MOISTURE STORAGES (SAC) | FCST |
| VSQI | STANDARD ERROR DISCHARGE SIMULATED INSTANTANEOUS | BOTH |
| VSQM | STANDARD ERROR DISCHARGE SIMULATED MEAN | BOTH |
| SUNH | SUNSHINE DURATION-HOURS | CALB |
| SUNP | SUNSHINE PERCENT | CALB |
| TWEL | TAIL WATER STAGE OBSERVED | BOTH |
| STW | TAIL WATER STAGE SIMULATED | BOTH |
| TWSW | TAILWATER STAGE SPILLWAY OBSERVED | BOTH |
| VWE | VARIANCE WATER EQUIVALENT OBSERVED | BOTH |
| VWES | VARIANCE WATER EQUIVALENT SIMULATED | BOTH |
| TPMX | WATER TEMPERATURE PAN MAXIMUM | CALB |
| TPMN | WATER TEMPERATURE PAN MINIMUM | CALB |
| TWIN | WATER TEMPERATURE STREAM | CALB |
| UDIR | WIND DIRECTION | CALB |
| UVEL | WIND SPEED INSTANTANEOUS | CALB |
| UAVG | WIND SPEED MEAN | CALB |
| UDIS | WIND TRAVEL POINT | CALB |
| ZRX | ZERO RAIN FRACTION INSTANTANEOUS | BOTH |

Table 2. Data types sorted by type code

| Type |  | APPL |
| :---: | :---: | :---: |
| Code | Description | Code |
| AEIS | ANTECEDENT EVAPORATION INDEX | BOTH |
| AESC | SNOW COVER AREAL EXTENT OBSERVED | BOTH |
| AFAI | ANTECEDENT FLOW INDEX FUNCTION GLACIER | BOTH |
| AIAI | ANTECEDENT INDEX | BOTH |
| APIC | API-CONT MODEL CONTENTS API,AI, SMI,BFSC,BFI | FCST |
| APIS | ANTECEDENT PRECIPITATION INDEX | BOTH |
| AQME | RIVER DISCHARGE ADJUSTED MEAN | BOTH |
| ATI | ANTECEDENT TEMPERATURE INDEX | BOTH |
| BFR | RECESSION COEFFICIENT BASEFLOW | FCST |
| CSTO | RESERVOIR STORAGE CHANGE | BOTH |
| CVX | COEFFICIENT OF VARIATION INSTANTANEOUS | BOTH |
| DFAC | DIMENSIONLESS FACTOR SIMULATED INSTANTANEOUS | BOTH |
| DQIE | DIVERSION FLOW OBSERVED+PROJECTED INSTANTANEOUS | BOTH |
| DQIN | DIVERSION FLOW OBSERVED+PROJECTED INSTANTANEOUS | BOTH |
| DQME | DIVERSION FLOW OBSERVED+PROJECTED MEAN | BOTH |
| DQMP | DIVERSION FLOW OBSERVED+PROJECTED MEAN | BOTH |
| EPAN | EVAPORATION PAN | CALB |
| EPL | EVAPORATION LAKE | CALB |
| FBEL | RESERVOIR FOREBAY ELEVATION OBSERVED | BOTH |
| FEIX | FROST EFFICIENCY INDEX SIMULATED | BOTH |
| FGDP | FROST DEPTH OBSERVED | FCST |
| FGIX | FROST INDEX SIMULATED INSTANTANEOUS | BOTH |
| GATE | GATE OPENINGS OBSERVED+PROJECTED | BOTH |
| GCS | GATE CONTROL SWITCH | BOTH |
| GOUT | GLACIER OUTFLOW MELT | BOTH |
| GTCS | GATE CONTROL SWITCH | BOTH |
| GWRO | RUNOFF GROUNDWATER (BASEFLOW) | FCST |
| HDAT | HOURS TO DATE OF AN OBSERVATION | FCST |
| ICET | ICE THICKNESS OBSERVED | FCST |
| INFW | RUNOFF INFLOW TO CHANNEL | BOTH |
| KP | ASSIMILATOR PRECIPITATION MULTIPLIER | FCST |
| LAKH | LAKE HEIGHT OBSERVED | BOTH |
| LELV | LAKE ELEVATION OBSERVED | BOTH |
| MAP | PRECIPITATION AREAL MEAN | BOTH |
| MAPE | EVAPOTRANSPIRATION POTENTIAL AREAL MEAN | BOTH |
| MAPG | GRID PRECIPITATION AREAL MEAN | FCST |
| MAPI | API AREAL MEAN | FCST |
| MAPX | GRIDDED PRECIPITATION AREAL MEAN | FCST |
| MARO | RUNOFF AREAL MEAN | FCST |
| MAT | AIR TEMPERATURE AREAL MEAN | BOTH |
| MAWE | SNOW COVER WATER EQUIVALENT AREAL MEAN | BOTH |
| MOPE | EVAPOTRANSPIRATION POTENTIAL FROM MONTHLY MEAN | BOTH |
| NFBD | FLASH BOARDS DOWN NUMBER OBSERVED+PROJECTED | BOTH |
| OPKS | PEAK WITHIN FIXED WINDOW OBSERVED | FCST |
| PCFD | DIVERTED FLOW FROM CHANNEL PERCENT | BOTH |
| PELE | RESERVOIR POOL ELEVATION ADJUSTED | BOTH |
| PELV | RESERVOIR POOL ELEVATION OBSERVED | BOTH |
| PLDS | SIMULATED VALUE AT FIXED LEAD | FCST |
| PSRO | RUNOFF SURFACE PERCENT | BOTH |
| PTPE | EVAPOTRANSPIRATION POTENTIAL POINT | BOTH |
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Table 2. Data types sorted by type code

| Type |  | APPL |
| :---: | :---: | :---: |
| Code | Description | Code |
| PTPP | PRECIPITATION POINT MISSING NOT ALLOWED | BOTH |
| PTPS | PRECIPITATION SNOWFALL (FRACTION) | BOTH |
| PTPX | PRECIPITATION POINT MISSING ALLOWED | BOTH |
| QIN | RIVER DISCHARGE OBSERVED INSTANTANEOUS | BOTH |
| QINE | RIVER DISCHARGE ADJUSTED INSTANTANEOUS | BOTH |
| QINH | RIVER DISCHARGE COMPUTED FROM STAGE INSTANTANEOUS | BOTH |
| QME | RIVER DISCHARGE OBSERVED MEAN | BOTH |
| RADL | RADIATION ATMOSPHERIC LONGWAVE POINT | CALB |
| RADN | RADIATION NET POINT | CALB |
| RADR | RADIATION REFLECTED SOLAR POINT | CALB |
| RADS | RADIATION INCOMING SOLAR POINT | CALB |
| RADT | RADIATION TOTAL HEMISPHERIC | CALB |
| RAIM | PRECIPITATION RAIN+MELT | BOTH |
| ROCL | RUNOFF COMPONENTS (SAC) | FCST |
| RQGM | POWER GENERATION OBSERVED MEAN | BOTH |
| RQIE | RESERVOIR OUTFLOW OBSERVED+PROJECTED INSTANTANEOUS | BOTH |
| RQIM | RESERVOIR INFLOW OBSERVED MEAN | BOTH |
| RQIN | RESERVOIR INFLOW OBSERVED INSTANTANEOUS | BOTH |
| RQME | RESERVOIR OUTFLOW OBSERVED+PROJECTED MEAN | BOTH |
| RQMP | RESERVOIR OUTFLOW OBSERVED+PROJECTED MEAN | BOTH |
| RQOT | RESERVOIR OUTFLOW OBSERVED+PROJECTED INSTANTANEOUS | BOTH |
| RQSW | RESERVOIR OUTFLOW SPILLWAY OBSERVED | BOTH |
| RSEL | RAIN-SNOW ELEVATION | BOTH |
| RSTE | RESERVOIR STORAGE ADJUSTED | BOTH |
| RSTO | RESERVOIR STORAGE OBSERVED | BOTH |
| SASC | SNOW COVER AREAL EXTENT SIMULATED | BOTH |
| SCOT | SNOW COVER OUTFLOW | CALB |
| SDQI | DIVERSION FLOW SIMULATED INSTANTANEOUS | BOTH |
| SDQM | DIVERSION FLOW SIMULATED MEAN | BOTH |
| SKYD | CLOUD COVER SUNRISE-SUNSET MEAN | CALB |
| SKYI | CLOUD COVER INSTANTANEOUS | CALB |
| SKYM | CLOUD COVER MIDNIGHT-MIDNIGHT MEAN | CALB |
| SMZC | SOIL MOISTURE STORAGES (SAC) | FCST |
| SNOF | SNOWFALL DEPTH OBSERVED | BOTH |
| SNOG | SNOW COVER DEPTH OBSERVED | BOTH |
| SNSG | SNOW COVER DEPTH SIMULATED | BOTH |
| SNWE | SNOW COVER WATER EQUIVALENT OBSERVED | BOTH |
| SPEL | RESERVOIR POOL STAGE SIMULATED | BOTH |
| SPKS | PEAK WITHIN FIXED WINDOW SIMULATED | FCST |
| SQIB | RIVER DISCHARGE SIM-INST BEGINNING OF PERIOD | BOTH |
| SQIE | RIVER DISCHARGE SIM-INST END OF PERIOD | BOTH |
| SQIN | RIVER DISCHARGE SIMULATED INSTANTANEOUS | BOTH |
| SQME | RIVER DISCHARGE SIMULATED MEAN | BOTH |
| SRSO | RESERVOIR STORAGE SIMULATED | BOTH |
| SSTG | RIVER STAGE SIMULATED | BOTH |
| STG | RIVER STAGE OBSERVED | BOTH |
| STGE | RIVER STAGE ADJUSTED | BOTH |
| STID | SIMULATED TIDE NOS GENERATED INSTANTANEOUS | BOTH |
| STW | TAIL WATER STAGE SIMULATED | BOTH |
| SUNH | SUNSHINE DURATION-HOURS | CALB |

Table 2. Data types sorted by type code

| Type |  | APPL |
| :---: | :---: | :---: |
| Code | Description | Code |
| SUNP | SUNSHINE PERCENT | CALB |
| SURO | RUNOFF STORM | FCST |
| SVIN | RIVER VELOCITY SIMULATED MEAN | BOTH |
| SWE | SNOW COVER WATER EQUIVALENT SIMULATED | BOTH |
| TAIN | AIR TEMPERATURE POINT INSTANTANEOUS | CALB |
| TAMN | AIR TEMPERATURE MINIMUM | BOTH |
| TAMX | AIR TEMPERATURE MAXIMUM | BOTH |
| TAVG | AIR TEMPERATURE POINT MEAN | BOTH |
| TDIN | DEW-POINT POINT INSTANTANEOUS | CALB |
| TDME | DEW-POINT POINT MEAN | CALB |
| TID | OBSERVED TIDE OBSERVED INSTANTANEOUS | BOTH |
| TIDE | ADJUSTED TIDE OBSERVED+PROJECTED INSTANTANEOUS | BOTH |
| TPMN | WATER TEMPERATURE PAN MINIMUM | CALB |
| TPMX | WATER TEMPERATURE PAN MAXIMUM | CALB |
| TSIN | SNOW COVER TEMPERATURE POINT-INSTANTANEOUS | CALB |
| TWEL | TAIL WATER STAGE OBSERVED | BOTH |
| TWIN | WATER TEMPERATURE STREAM | CALB |
| TWSW | TAILWATER STAGE SPILLWAY OBSERVED | BOTH |
| UAVG | WIND SPEED MEAN | CALB |
| UDIR | WIND DIRECTION | CALB |
| UDIS | WIND TRAVEL POINT | CALB |
| UVEL | WIND SPEED INSTANTANEOUS | CALB |
| VSQI | STANDARD ERROR DISCHARGE SIMULATED INSTANTANEOUS | BOTH |
| VSQM | STANDARD ERROR DISCHARGE SIMULATED MEAN | BOTH |
| VWE | VARIANCE WATER EQUIVALENT OBSERVED | BOTH |
| VWES | VARIANCE WATER EQUIVALENT SIMULATED | BOTH |
| ZELV | FREEZING LEVEL OBSERVED+PROJECTED | BOTH |
| ZRX | ZERO RAIN FRACTION INSTANTANEOUS | BOTH |

Table 3. Data types and attributes

| Type | DIMN | SPAC | Time | APPL |
| :---: | :---: | :---: | :---: | :---: |
| Code | Code | Code | Code | Code |
| AEIS | L | A/P | INST | BOTH |
| AESC | DLES | A | INST | BOTH |
| AFAI | L | A/P | ACCM | BOTH |
| AIAI | DLES | A/P | INST | BOTH |
| APIC | L | A/P | INST | FCST |
| APIS | L | A/P | INST | BOTH |
| AQME | L3 | P | ACCM | BOTH |
| ATI | TEMP | A/P | INST | BOTH |
| BFR | DLES | P | INST | FCST |
| CSTO | L3 | P | INST | BOTH |
| CVX | DLES | A | INST | BOTH |
| DFAC | DLES | A/P | INS T | BOTH |
| DQIE | L3/T | P | INST | BOTH |
| DQIN | L3/T | P | INST | BOTH |
| DQME | L3 | P | ACCM | BOTH |
| DQMP | L3 | P | ACCM | BOTH |
| EPAN | L | P | ACCM | CALB |
| EPL | L | P | ACCM | CALB |
| FBEL | L | P | INST | BOTH |
| FEIX | DLES | A | INST | BOTH |
| FGDP | L | P | INST | FCST |
| FGIX | TEMP | A | INS T | BOTH |
| GATE | L | P | INS T | BOTH |
| GCS | DLES | P | INST | BOTH |
| GOUT | L | A/P | ACCM | BOTH |
| GTCS | DLES | P | INST | BOTH |
| GWRO | L | A | ACCM | FCST |
| HDAT | TIME | P | INST | FCST |
| ICET | L | P | INST | FCST |
| INFW | L | A | ACCM | BOTH |
| KP | DLES | A | MEAN | FCST |
| LAKH | L | P | INST | BOTH |
| LELV | L | P | INS T | BOTH |
| MAP | L | A | ACCM | BOTH |
| MAPE | L | A | ACCM | BOTH |
| MAPG | L | A | ACCM | FCST |
| MAP I | L | A | INST | FCST |
| MAPX | L | A | ACCM | FCST |
| MARO | L | A | ACCM | FCST |
| MAT | TEMP | A | MEAN | BOTH |
| MAWE | L | A | INST | BOTH |
| MOPE | L | P | ACCM | BOTH |
| NFBD | DLES | P | INST | BOTH |
| OPKS | DLES | P | INS T | FCST |
| PCFD | DLES | P | INST | BOTH |
| PELE | L | P | INST | BOTH |
| PELV | L | P | INST | BOTH |
| PLDS | DLES | P | INS T | FCST |
| PSRO | DLES | A | MEAN | BOTH |
| PTPE | L | P | ACCM | BOTH |

Table 3. Data types and attributes

| Type | DIMN | SPAC | Time | APPL |
| :---: | :---: | :---: | :---: | :---: |
| Code | Code | Code | Code | Code |
| PTPP | L | P | ACCM | BOTH |
| PTPS | DLES | A/P | MEAN | BOTH |
| PTPX | L | P | ACCM | BOTH |
| QIN | L3/T | P | INS T | BOTH |
| QINE | L3/T | P | INST | BOTH |
| QINH | L3/T | P | INST | BOTH |
| QME | L3 | P | ACCM | BOTH |
| RADL | E/L2 | P | ACCM | CALB |
| RADN | E/L2 | P | ACCM | CALB |
| RADR | E/L2 | P | ACCM | CALB |
| RADS | E/L2 | P | ACCM | CALB |
| RADT | E/L2 | A/P | ACCM | CALB |
| RAIM | L | A/P | ACCM | BOTH |
| ROCL | L | A/P | ACCM | FCST |
| RQGM | L3 | P | ACCM | BOTH |
| RQIE | L3/T | P | INST | BOTH |
| RQIM | L3 | P | ACCM | BOTH |
| RQIN | L3 / T | P | INST | BOTH |
| RQME | L3 | P | ACCM | BOTH |
| RQMP | L3 | P | ACCM | BOTH |
| RQOT | L3 / T | P | INS T | BOTH |
| RQSW | L3/T | P | INST | BOTH |
| RSEL | L | A | MEAN | BOTH |
| RSTE | L3 | P | INST | BOTH |
| RSTO | L3 | P | INST | BOTH |
| SASC | DLES | A | INST | BOTH |
| SCOT | L | P | ACCM | CALB |
| SDQI | L3/T | P | INST | BOTH |
| SDQM | L3 | P | ACCM | BOTH |
| SKYD | DLES | P | MEAN | CALB |
| SKYI | DLES | P | INST | CALB |
| SKYM | DLES | P | MEAN | CALB |
| SMZC | L | A/P | INST | FCST |
| SNOF | L | P | ACCM | BOTH |
| SNOG | L | P | INST | BOTH |
| SNSG | L | P | INST | BOTH |
| SNWE | L | P | INST | BOTH |
| SPEL | L | P | INST | BOTH |
| SPKS | DLES | P | INST | FCST |
| SQIB | L3/T | P | INST | BOTH |
| SQIE | L3/T | P | INST | BOTH |
| SQIN | L3/T | P | INST | BOTH |
| SQME | L3 | P | ACCM | BOTH |
| SRSO | L3 | P | INST | BOTH |
| SSTG | L | P | INST | BOTH |
| STG | L | P | INST | BOTH |
| STGE | L | P | INST | BOTH |
| STID | L | P | INST | BOTH |
| STW | L | P | INST | BOTH |
| SUNH | TIME | P | ACCM | CALB |

Table 3. Data types and attributes

| Type | DIMN | SPAC | Time | APPL |
| :--- | :--- | :--- | :--- | :--- |
| Code | Code | Code | Code | Code |
| SUNP | DLES | P | MEAN | CALB |
| SURO | L | A | ACCM | FCST |
| SVIN | L/T | P | INST | BOTH |
| SWE | L | A/P | INST | BOTH |
| TAIN | TEMP | P | INST | CALB |
| TAMN | TEMP | P | INST | BOTH |
| TAMX | TEMP | P | INST | BOTH |
| TAVG | TEMP | P | MEAN | BOTH |
| TDIN | TEMP | P | INST | CALB |
| TDME | TEMP | P | MEAN | CALB |
| TID | L | P | INST | BOTH |
| TIDE | L | P | INST | BOTH |
| TPMN | TEMP | P | INST | CALB |
| TPMX | TEMP | P | INST | CALB |
| TSIN | TEMP | P | INST | CALB |
| TWEL | L | P | INST | BOTH |
| TWIN | TEMP | P | INST | CALB |
| TWSW | L | P | INST | BOTH |
| UAVG | L/T | A/P | MEAN | CALB |
| UDIR | DIR | P | INST | CALB |
| UDIS | L | P | ACCM | CALB |
| UVEL | L/T | P | INST | CALB |
| VSQI | L3/T | P | INST | BOTH |
| VSQM | L3 | P | ACCM | BOTH |
| VWE | L2 | P | INST | BOTH |
| VWES | L2 | A/P | INST | BOTH |
| ZELV | L | A | INST | BOTH |
| ZRX | DLES | A | INST | BOTH |

Table 4. Forecast Component data type codes sorted by description




$\begin{array}{lllll} \\ \text { TIDE } & \text { ADJUSTED TIDE OBSERVED+PROJECTED INSTANTANEOUS } \\ \text { MASCrißEROTEMPERATURE AREAL MEAN } \\ \text { TAMX } & \text { AIR TEMPERATURE } & \text { MAXIMUM } \\ \text { TAMN } & \text { AIR TEMPERATURE } & \text { MINIMUM } \\ \text { TAIN } & \text { AIR TEMPERATURE POINT INSTANTANEOUS } \\ \text { TAVG } & \text { AIR TEMPERATURE POINT MEAN }\end{array}$

TIDE ADJUSTED TIDE OBSERVED+PROJECTED INSTANTANEOUS
 TAMX AIR TEMPERATURE MAXIMUM

品
O
a等 $\begin{array}{ll}\text { H } \\ \text { O } \\ \text { O } \\ 0 & 0 \\ 0 & 0\end{array}$ PCFD Noz

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Table 4. Forecast Component data type codes sorted by description


Table 4．Forecast Component data type codes sorted by description


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