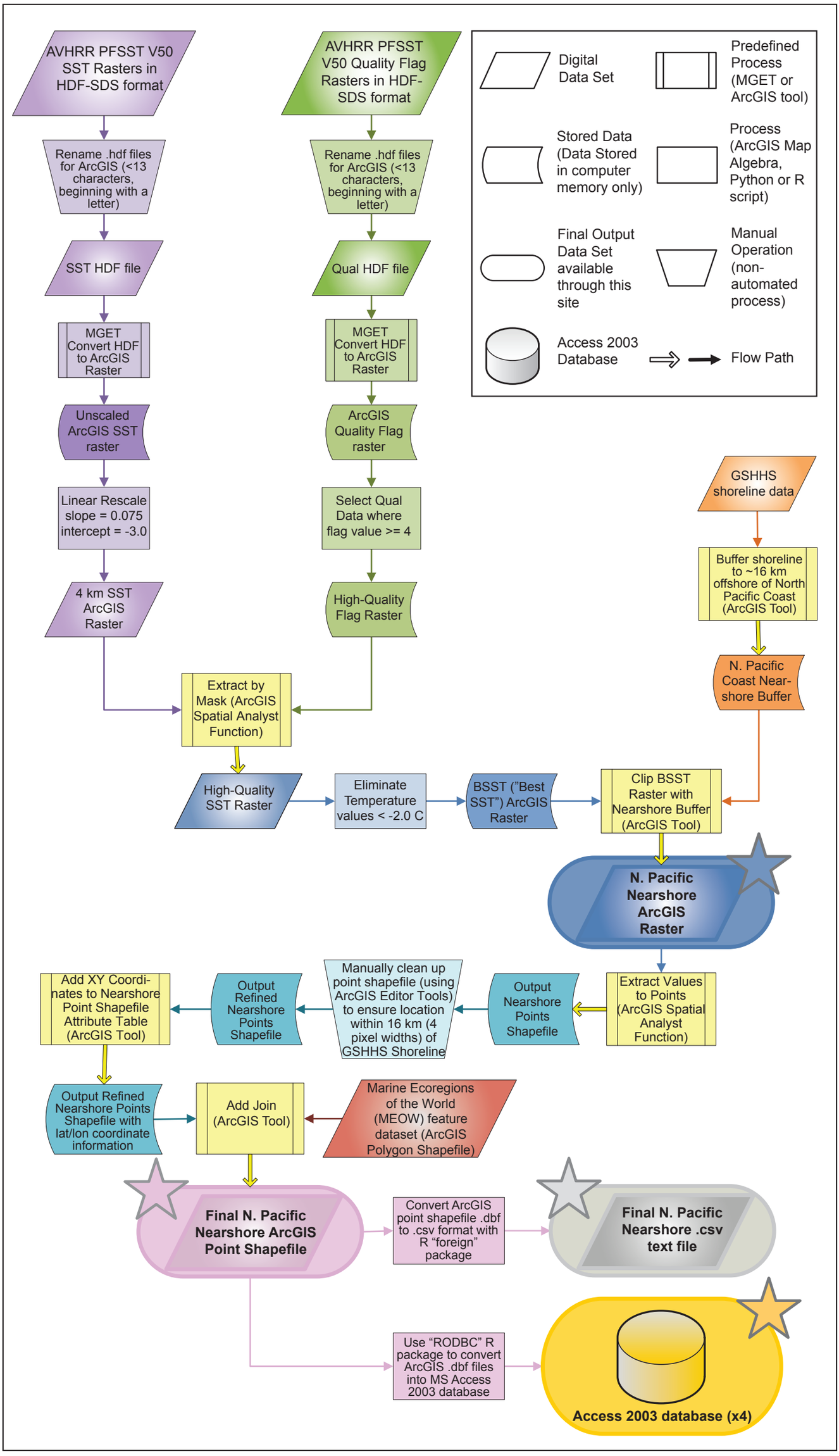
AVHRR PFSST V50 SST Rasters in HDF-SDS format
Rename .hdf files for ArcGIS (<13 characters, beginning with a letter)
SST HDF file
MGET Convert HDF to ArcGIS Raster
Unscaled ArcGIS SST raster
Linear Rescale slope = 0.075 intercept = -3.0
4 km SST ArcGIS Raster
AVHRR PFSST V50 Quality Flag Rasters in HDF-SDS format
Rename .hdf files for ArcGIS (<13 characters, beginning with a letter)
Qual HDF file
MGET Convert HDF to ArcGIS Raster
ArcGIS Quality Flag raster
Select Qual Data where flag value >= 4
High-Quality Flag Raster
Digital Data Set
Predefined Process (MGET or ArcGIS tool)
Stored Data (Data Stored in computer memory only)
Process (ArcGIS Map Algebra, Python or R script)
Final Output Data Set available through this site
Manual Operation (non-automated process)
Access 2003 Database
Flow Path
GSHHS shoreline data
Buffer shoreline to ~16 km offshore of North Pacific Coast (ArcGIS Tool)
N. Pacific Coast Near-shore Buffer
Extract by Mask (ArcGIS Spatial Analyst Function)
High-Quality SST Raster
Eliminate Temperature values < -2.0 C
BSST ("Best SST") ArcGIS Raster
Clip BSST Raster with Nearshore Buffer (ArcGIS Tool)
N. Pacific Nearshore ArcGIS Raster
Extract Values to Points (ArcGIS Spatial Analyst Function)
Output Nearshore Points Shapefile
Manually clean up point shapefile (using ArcGIS Editor Tools) to ensure location within 16 km (4 pixel widths) of GSHHS Shoreline
Output Refined Nearshore Points Shapefile
Add XY Coordi-nates to Nearshore Point Shapefile Attribute Table (ArcGIS Tool)
Output Refined Nearshore Points Shapefile with lat/lon coordinate information
Add Join (ArcGIS Tool)
Marine Ecoregions of the World (MEOW) feature dataset (ArcGIS Polygon Shapefile)
Final N. Pacific Nearshore ArcGIS Point Shapefile
Convert ArcGIS point shapefile .dbf to .csv format with R "foreign" package
Final N. Pacific Nearshore .csv text file
Use "RODBC" R package to convert ArcGIS .dbf files into MS Access 2003 database
Access 2003 database (x4)