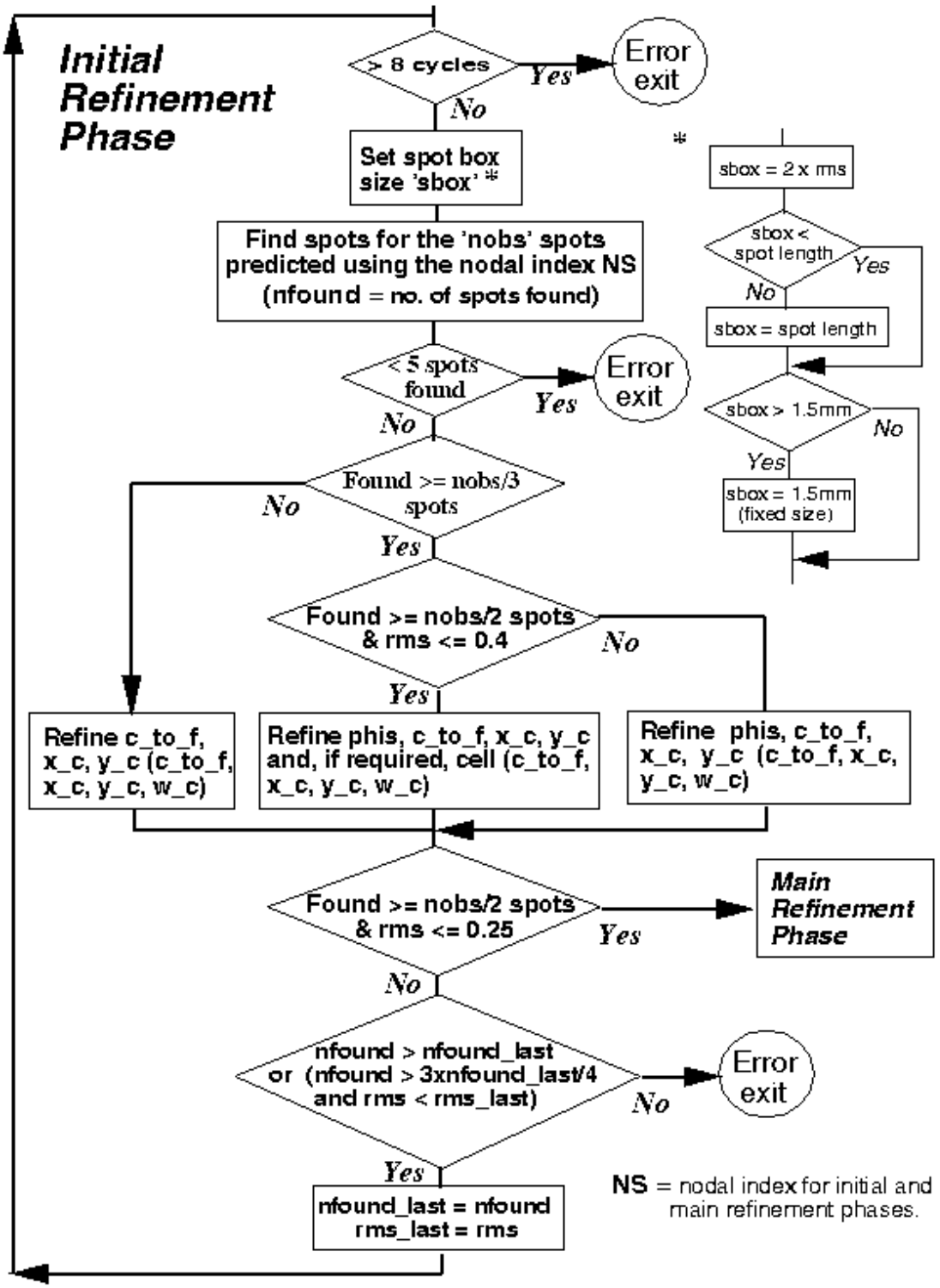
Initial Refinement Phase
> 8 cycles
Yes
Error exit
No
Set spot box size 'sbox' *
Find spots for the 'nobs' spots predicted using the nodal index NS (nfound = no. of spots found)
< 5 spots found
Yes
Error exit
No
Found >= nobs/3 spots
No
Yes
Found >= nobs/2 spots & rms <= 0.4
No
Yes
Refine c_to_f, x_c, y_c (c_to_f, x_c, y_c, w_c)
Refine phis, c_to_f, x_c, y_c and, if required, cell (c_to_f, x_c, y_c, w_c)
Refine phis, c_to_f, x_c, y_c (c_to_f, x_c, y_c, w_c)
Found >= nobs/2 spots & rms <= 0.25
Yes
Main Refinement Phase
No
nfound > nfound_last or (nfound > 3xnfound_last/4 and rms < rms_last)
No
Error exit
Yes
nfound_last = nfound
rms_last = rms
*
sbox = 2 x rms
sbox < spot length
Yes
No
sbox = spot length
sbox > 1.5mm
No
Yes
sbox = 1.5mm (fixed size)
NS = nodal index for initial and main refinement phases.